**Professional Summary:**

* **Having** **12 Years** of IT experience as a Web/Application Developer and coding with analytical programming using **Python and Django.**
* Experienced with full software development life-cycle, architecting scalable platforms, object oriented programming, database design and agile methodologies.
* Experienced in **LAMP** (Linux, Apache, MySQL and Python), **WAMP** (**Windows, Apache, MySQL, Python) architecture.**
* **Proficient in Python, C++, and Java**
* Working knowledge of **core** **AWS services such as EC2, S3, RDS, VPC, and IAM**
* Excellent experience with **Python** development under **Linux OS** (**Debian, Ubuntu, SUSE Linux, RedHat Linux, Fedora).**
* **Experienced in development of applications for ArcGIS Desktop, ArcGIS Server, and ArcGIS Online**
* Expert on **OOPS, Multi-threading, Exception-Handling & Collections in python.**
* **Experience in using the Integrated Development Environment (IDE) such as PyCharm, Sublime Text, and Visual Studio Code**
* **Excellent knowledge of Perl, including object-oriented programming, scalability, security, and web programming**
* **Possess expertise in developing and deploying applications with Docker, Python and related technologies like Django, Flask, and PostgreSQL**
* **Implemented a C++ algorithm to generate efficient code for data processing**
* **Expertise in developing and deploying applications and services on GCP, including App Engine, Compute Engine, Cloud Storage, Big Query, Cloud Functions, and Cloud ML.**
* **Familiarity with serverless architecture and developing, deploying, and maintaining Lambda functions.**
* Demonstrated experience working with **Python, RDS and other relevant technologies.**
* Proven track record of implementing **software solutions using Docker and Kubernetes**
* Experience with several Python packages like **Numpy, Matplotlib, Scipy, PyQt, wxpython and PyTables.**
* Experience in developing web applications by following Model View Control (MVC) Architecture using server side application **Django.**
* **Experienced with DevOps tools and practices, such as Docker, Ansible, Kubernetes, Jenkins, Continuous Integration and Continuous Delivery**
* **Experience in using version control systems such as Git and GitHub**
* **Experienced in writing SQL queries and database operations using Python and PyCharm.**
* **Ability to work with large amounts of data: Amazon S3 allows you to store and retrieve large amounts of data, and having experience with it can demonstrate your ability to work with large amounts of data.**
* Experience in developing web services **(WSDL, SOAP and REST)** and consuming web services with python programming language.
* **Experience in designing and developing applications in Google Cloud Platform (GCP)**
* **Experience working with various AWS services such as CloudWatch, S3, API Gateway, and DynamoDB.**
* Very good experience with cloud platforms like **Amazon AWS.**
* Experience in working with **Python ORM** Libraries including **Django ORM.**
* Good experience with **Python** frameworks like **Django and WebApp2.**
* Experienced in working with various Python Integrated Development Environments like **NetBeans, PyCharm, PyScripter, PyDev, Eclipse and Sublime Text.**
* Proficient in Front end development experience using **HTML5, XML, CSS, jQuery, JSON, JavaScript, Angular.js, and Bootstrap.**
* Strong exposure in writing simple and **complex SQL** queries and creating **PL/SQL Functions**, Stored Procedures.
* Good Knowledge on **Amazon Web Services** (AWS) Cloud services such as **EC2, EBS, S3, VPC, Cloud Watch,** and **Elastic Load Balancer.**
* Experience implementing **Object Oriented Python**, **Hash Tables** (Dictionaries) **and Multithreading, Django, MYSQL.**
* **Developed custom web services for ArcGIS Server to enable access to GIS data from web applications**
* **Developed a Python script to extract data from a C++ API and store it in a database**
* Experience in relational databases like **Oracle MS SQL server, developing PL/SQL packages,** Stored Procedures, Functions, Views, Indexes, **Triggers, XML join,** user defined data types and other complex queries.
* Having experienced in **Agile** Methodologies, Scrum stories and sprints experience in a **Python** based environment, along with data analytics, data wrangling and Excel data extracts.
* Ensured quality and deadlines using **Jenkins, Pylint, Git Hub, SVN and JIRA**
* Developed custom Lambda functions to **process data from S3 and store it in DynamoDB**
* Experience with working on multiple environments like development, testing, production. Excellent analytical and problem-solving skills and ability to work on own besides being valuable and contributing team player.
* Excellent communication and interpersonal skills with ability to interact with individuals at all levels and can work as a part of team as well as independently.

**Technical Skills:**

|  |  |
| --- | --- |
| **Languages:** | Python, C, C++, Shell Script, Java, PHP, PL/SQL, Ruby |
| **Version Controls:** | GIT, GitHub, SVN, CVS |
| **Web Technologies:** | JavaScript, HTML, CSS, jQuery, AngularJS, ExtJS, Node JS, JSON and bootstrap. |
| **Frameworks:** | Django, Flask, Pyramid |
| **Web Services:** | Soap, Apache Axis, Restful |
| **Bigdata Technologies:** | Hadoop, Hive, Pig, Spark |
| **Cloud:** | AWS, OpenStack |
| **Databases:** | PostgreSQL, MySQL, MariaDB, Oracle 8i/9i/10g, MS Access, SQL Server, Sybase, SQLite, SQL Alchemy |
| **Operating Systems:** | Linux, Windows, IOS, MAC OSX |
| **NoSQL Databases:** | Mongo DB, Redis, Cassandra |
| **Protocols:** | TCP/IP, HTTP/HTTPS, SMTP |

**Professional Experience:**

**Title: Sr Python Full Stack Developer July 2023 – till date**

**Client: SINGULARITY AI INC**

**Responsibilities:**

* Participated in entire lifecycle of the projects including Design, Development, and Deployment, Testing and Implementation and support.
* **Experience in setting up CI/CD pipelines for Python applications using Kubernetes**
* Developed multi-threaded standalone app in **Python**, to view Circuit parameters and performance.
* Worked with team of developers on **Python** applications for **RISK** management.
* Built different **Lambda functions to handle webhooks and API requests**
* Developed **C++ software for a variety of projects, including a financial trading system and an inventory tracking system.**
* **Utilized Python libraries to create custom geoprocessing tools for ArcGIS Desktop**
* **Experienced in developing a web application using Python, Docker, and Flask**
* **Proficiency in writing scripts using Perl**
* **Automating the deployment of applications and services using DevOps and Infrastructure as Code (IaC).**
* Experience developing and deploying **applications using Python scripting and AWS infrastructure**
* Developed web applications in **Django Framework's** model view control (MVC) architecture and manipulated databases by using **Django database API** along with **MySQL.**
* Experienced in deploying and managing applications **in GCP using Cloud Deployment Manager, Terraform, and Kubernetes**
* **Developed custom web services for ArcGIS Server to enable access to GIS data from web applications**
* **Proven ability to collaborate with stakeholders and development teams to create and maintain successful applications**
* Extensive knowledge of **Git and Github to develop, manage, and deploy projects**
* Developed and maintained **ETL (extract, transform, and load) processes using Python and RDS.**
* Created a **Python, Django** web-based application using Python scripting for data processing and **MySQL** for database, **HTML5, CSS and JQuery** for data visualization
* Developed a **web-based application using Perl, HTML, CSS, JavaScript, and AJAX**
* Proficient in **Python programming language with multi-threading**
* Fluent in programming **with C++, including data structures, algorithms, object-oriented design, and debugging.**
* Working knowledge of software development principles such as **DevOps, Continuous Integration, and Continuous Delivery**
* Hands-on experience with various **AWS technologies, including Lambda, EMR, Glue, Athena, and Step Functions**
* **Developed automated scripts using Python and RDS to streamline and optimize database operations.**
* **Experienced in synchronization between multiple threads**
* **Used PyCharm IDE for developing various Python applications.**
* Developed entire frontend and backend modules using **Python on Django** Web Framework.
* Provided GUI utilizing **PyQt** for the end user to create, modify and view reports based on client data.
* Designed and developed a horizontally scalable APIs using **Django.**
* Using **Amazon EC2 command** line interface along with **Bash/Python** to automate repetitive work.
* Worked with View Sets in **Django-REST** framework for providing web services and consumed web services performing CRUD operations.
* Experienced in deploying applications on cloud platforms **such as AWS, Heroku, and Google Cloud Platform(GCP).**
* **Developed several applications using multi-threading in Python**
* Designed and Developed User Interface using front-end technologies like **HTML5, CSS3, JavaScript, Bootstrap** and **JSON.**
* **Ability to troubleshoot, optimize and secure applications in Docker and Kubernetes**
* **Familiarity with AWS services: Amazon S3 is just one of many AWS services, and having experience with it can demonstrate your familiarity with all of the AWS services.**
* Developed and implemented data models **utilizing RDS to store and retrieve data.**
* Integrate the dynamic pages with **Angular.JS** and **JQuery** to make the pages dynamic.
* Worked in an **agile** development environment.
* Ability to integrate third **party APIs with existing applications through PyCharm.**
* Designed and implemented automated **deployments of Lambda functions using CloudFormation templates and CodePipeline**
* Created multiple **Python and UNIX shell Scripts** for various application-level tasks.
* Used **Test driven approach** for developing the application and implemented the unit tests using **Python Unit test** framework.  
  Wrote and executed various **MYSQL database** queries from **Python** using **Python-MySQL** connector and **MySQL dB package.**
* Developed weekly, monthly nightly job process through **UNIX shell scripting.**
* Responsible for debugging and troubleshooting the web application.

**Environment**: **Python, Django, AWS, PyQt, Agile, Angular.js, JQuery, CSS3, DHTML, HTML5, JavaScript, Bootstrap, GitHub, Shell Scripts, Restful API, MySQL, LINUX, and Windows, AWS, Azure, and Google Cloud Platform(GCP), Docker, Ansible, Kubernetes,Jenkins, Pylint, Git Hub, SVN,** **C++, algorithms, object-oriented design.**

**Title: Python Full Stack Developer April 2021 – June 2023**

**Client- STATE OF UTAH**

**Responsibilities:**

* Responsible for gathering requirements, system analysis, design, development, testing and deployment.
* Rewrite existing **Python/Django** modules to deliver certain format of data.
* Used **Django** Database API's to access database objects.
* Developed a **Python-C++ bridge to pass data between Python and C++ modules**
* Proficiency with scripting and automation **of cloud deployments, utilizing AWS CLI and CloudFormation**
* Developed GUI using **webapp2** for dynamically displaying the test block documentation and other features of **Python** code using a web browser.
* Mentoring and training junior **developers in Python development and DevOps best practices.**
* Skilled at debugging and optimizing **Python applications in Docker and Kubernetes**
* Ability to **write powerful and efficient Perl code**
* Developing and **maintaining CI/CD pipelines using DevOps tools and technologies.**
* Used **Python** module named Pandas for data manipulation.
* Utilized **RDS to set up and manage relational databases and optimize queries for maximum performance.**
* Involved in building database **Model, APIs** and Views utilizing **Python**, to build an interactive web-based solution.
* Wrote **Python** scripts to parse **XML** documents and load the data in database.
* Experienced in developing applications **using C++ and object-oriented programming concepts**
* Used **Wire shark, live http headers**, and **Fiddler2** debugging proxy to debug the **Flash object** and help the developer create a functional component.
* Creating and **managing Infrastructure as Code (IaC) templates.**
* Experienced in developing and **troubleshooting applications on the Google Cloud Platform(GCP).**
* Experienced in developing, **deploying, and managing Python applications in Docker and Kubernetes**
* **Developed stored procedures and functions within RDS for data manipulation.**
* **Knowledge of best practices when developing microservices with AWS Lambda.**
* Created **Python Scripts** to automate **AWS** services which includes **Web servers,** **ELB, Cloud Front distribution,** database, **EC2** and database security groups, **S3 bucket** and application configuration.
* Implemented user interface guidelines and standards throughout the development and maintenance of the website using the **CSS3, HTML5, JavaScript, Angular.js and JQuery.**
* Used **JQuery** for all client side **JavaScript** manipulation.
* Knowledgeable in debugging and troubleshooting **Python applications using PyCharm debugger.**
* Understanding of **security and compliance: Amazon S3 is a secure and compliant data storage and retrieval service**
* Well-versed in designing and developing **REST APIs with Python, Docker and frameworks**
* Proven record of success in **coding challenges and competitions on GitHub**
* Developed **custom Lambda functions to send notifications to end-users**
* Used **Python** to place data into **JSON files** for testing **Django** Websites.
* Debugged and fixed issues **related to multi-threading**
* Developed entire frontend and backend modules using **Python** on **Django** Web Framework.
* Development of **Python APIs** to dump the array structures in the Processor at the failure point for debugging.
* Worked on **Python Open stack API’s** used **Python scripts** to update content in the database and manipulate files.
* Used **GIT** control tool to coordinate team-development.
* Experience with cloud technologies such as **AWS, Azure, and Google Cloud Platform(GCP).**
* Knowledge of popular Python libraries such as **NumPy, SciPy, Pandas, and others**
* **Adept at integrating databases such as MySQL, Oracle, and MongoDB**
* **Actively participating in open source projects and contributing to their development on GitHub**
* Responsible for debugging and troubleshooting the web application.

**Environment**: Python, Django, webapp2, Wire shark, Fiddler2, Flash, Angular.js, HTML5, CSS3, JQuery, AWS, Shell Scripting, Java Script, JQuery, JSON, MySQL, Apache and Linux, AWS, Azure, and Google Cloud Platform(GCP), Docker, Kubernetes,Jenkins, Pylint, Git Hub, SVN and JIRA

**Title: Python Developer June 2019 – March 2021**

**Client TAP** **FOUNDATION USA**

**Responsibilities:**

* Participated in requirement gathering and analysis phase of the project in documenting the business requirements by conducting workshops/meetings with various business users.
* Used the Django Framework to develop the application.
* Implemented web applications in Flask and spring frameworks following MVC architecture.
* Used Python to place data into JSON files for testing Django Websites.
* Updated and manipulated content and files by using python scripts.
* Organized Python code using PEP8 online tool including documentation of scripts.
* Implemented web applications in Flask and spring frameworks following MVC architecture.
* Installing, configuring and upgrading EMC Power-path for AIX servers.
* Used Django configuration to manage URLs and application parameters.
* Wrote Automation test cases using Selenium WebDriver using Python API.
* Sole engineer responsible for automated test design, frontend and backend feature implementation, and any other improvements to the test automation framework.
* Designed and implemented a distributed, QA infrastructure for automated testing of a multi process software product.
* Worked on JavaScript MVC Framework like **Angular.js.**
* Abided by PEP8 Python coding standard for Squish scripts.
* Worked on Amazon Web Services (AWS) infrastructure with automation and configuration management tools such as Chef and Puppet.
* Worked on Python Open stack API's.
* Wrote Automation test cases using Selenium WebDriver using Python API.
* Installed Veritas Cluster Server on Solaris, with Oracle agent.
* Used Python scripts to update content in the database and manipulate files.
* Generated Python Django Forms to record data of online users
* Used Python and Django creating graphics, XML processing, data exchange and business logic implementation
* Used Pandas API to put the data as time series and tabular format for east timestamp data manipulation and retrieval.
* Used Flask to connect front-end to back-end, CherryPy to build the server and word clouds to visualize movies.
* Used latest Video Conference Applications and worked extensively on them.
* Data mapping, logical data modeling, created class diagrams and ER diagrams and used SQL queries to filter data within the Oracle database.
* Performed daily administration functions, including database management, monitoring, performance tuning, backup & recovery and also general troubleshooting on multiple UNIX platforms and Windows Servers.
* Added support for Amazon AWS S3 and RDS to host static/media files and the database into Amazon Cloud.
* Developed tools using Python, Shell scripting, XML to automate some of the menial tasks.
* Used HTML, CSS, JQuery, JSON and JavaScript for front end applications.
* Designed and developed the UI of the website using HTML, XHTML, AJAX, CSS, and JavaScript.
* Also, used Bootstrap as a mechanism to manage and organize the html page layout.
* Used Django configuration to manage URLs and application parameters.
* Built various graphs for business decision making using Python matplotlib library.
* Wrote and executed various MYSQL database queries from Python using Python-MySQL connector and MySQL dB package.
* Worked with PIP in managing software packages written in Python.
* Involved in development of Web Services using SOAP for sending and getting data from the external interface in the XML format.
* Manage, collaborate, and coordinate the work of an offshore development team.
* Worked on rebranding the existing web pages to clients per the type of deployment.
* Worked on updating the existing clip board to have the new features as per the client requirements.
* Responsible for debugging the project monitored on JIRA (Agile)
* **Analyzed performance test requirements and developed test plans and have done debugging to understand test** objective requirements.
* Performed troubleshooting, fixed and deployed many Python bug fixes of the two main applications that were a main source of data for both customers and internal customer service team.

**Environment:** Python, Amazon AWS S3, MySQL, HTML, Angular.js, Django, HTML5, CSS, XML, MySQL, MS SQL Server, JavaScript, AWS, Linux, Shell Scripting, AJAX.

**Title: Python Developer Jan 2018 – May 2019**

**Client: OPEN VENTURES INC.**

**Responsibilities:**

* Used Agile Methodology and SCRUM Process.
* Worked with the Stakeholders, gathered requirements developed High-level design Detail design documents.
* Developed UI using HTML, AJAX, JavaScript and jQuery and jQuery UI.
* Re-engineered various modules for implementing changes and creating efficient system.
* Developed rich UI web application using JavaScript libraries like jQuery UI, DataGrid, jscolor, and high charts.
* Designed and developed components using Python with Django framework. Implemented code in python to retrieve and manipulate data.
* Implemented database access using Django ORM.
* Used MySQL as backend database and MySQL dB of python as database connector to interact with MySQL server.
* Used Restful APIs to access data from different suppliers.
* Support the scripts configuration, testing, execution, deployment and run monitoring and metering.
* Used Python and Django creating graphics, XML processing of documents, data exchange and business logic implementation between servers.
* Used Restful API has to gather network traffic data from Servers.
* Supported Apache Tomcat web server on Linux Platform.
* Developed and executed User Acceptance Testing portion of test plan.
* Debugging Software for Bugs.

**Environment:** Python, Django, C++, HTML Restful API, MySQL, Shell Scripting, PL/SQL, Unix, Linux.

**Title: Python Developer July 2017 - Dec 2017**

**Client: IAGON**

**Responsibilities:**

* Worked on requirement gathering and High-level design.
* Used HTML/CSS and JavaScript for UI development.
* Converted Visual Basic Application to Python and MSQL.
* Used Python scripts to update content in the database and manipulate files.
* Written many programs to parse excel file and process many user data with data validations.
* Used Thales theorem for applying encryption and decryption of ISO standard message in Python programming.
* Ensured high quality data collection and maintaining the integrity of the data.
* Contributed patches back to Django.
* Utilized Python in the handling of all hits on Django, Redis, and other applications.
* Developed object-oriented programming to enhance company product management.
* Used several Python libraries like python, NumPy and matplotlib.
* Was involved in environment code installation as well as the SVN implementation.
* Build all database mapping classes using Django models.
* Created unit test/regression test framework for working/new code.
* Responsible for debugging and troubleshooting the web application.
* Environment: Python 2.6, SciPy, Pandas, Bugzilla, SVN, C++, Java, JQuery, MS SQL, Visual Basic, Linux, Eclipse, Java Script, XML, JASPER, PL/SQL, Oracle 9i, Shell Scripting, HTML5/CSS, Apache.

**Title: Python Developer Aug 2015 - June 2017**

**Client: OPEN VENTURES INC.**

**Responsibilities:**

* Participated in the complete SDLC process and used PHP to develop website functionality.
* Coding in LAMP (Linux, Apache, MySQL, and PHP) environment.
* Developed GUI HTML, XHTML, AJAX, CSS and JavaScript (JQuery).
* Built application logic using Python, used the Django Framework to develop the application.
* Used Django APIs for database access.
* Description Bluetooth enabled camcorder Embedded in a headset to enable hands-free audio and video recording with optical zoom capability.
* Rewrite existing Java application in Python module to deliver certain format of data
* Wrote Python scripts to parse XML documents and load the data in database.
* Utilized PyQt to provide GUI for the user to create, modify and view reports based on client data.
* Used Python based GUI components for the front-end functionality such as selection criteria.
* Developed monitoring and notification tools using Python.
* Participated in requirement gathering and worked closely with the architect in designing and modeling.
* Created Data tables to display customer information and add, delete, update customer records using Python, MySQL and XHTML.
* Used PyQt for the functionality filtering of columns helping customers to effectively view their transactions and statements. Implemented navigation rules for the application and page outcomes, written controllers using annotations.

**Environment**: Python, HTML, JavaScript, Ajax, PyQT, PyUnit, PL/SQL, and Oracle SQL Developer.

**Title: Python Developer Mar 2014 – April 2015**

**Client: MODERN COMPUTING SYSTEMS (MCS)**

**Responsibilities:**

* Extensively used Python / Django Framework for developing backend of applications.
* Responsible for analyzing various cross-functional, multi-platform applications systems enforcing Python best practices and provide guidance in making long term architectural design decisions.
* Worked with JSON based REST Web services and Amazon Web Services (AWS).
* Worked on Angular JS framework to develop interactive websites based on client needs.
* Successfully migrated the website&#39; s main database from MySQL to PostgreSQL.
* Helped the big data analytics team with implementation of python scripts for Sqoop, spark and Hadoop batch data streaming.
* Involved in Developing a Restful service using Python Flask framework.
* Actively involved in Initial software development life cycle (SDLC) of requirement gathering and also in suggesting system configuration specifications during client interaction.
* Analysis the logs data and filter required columns by Logstash configuration and send it to elastic search.
* Handled Business logics by backend Python programming to achieve optimal results.
* Implementing admin sites to manage database information with Flask Admin, MySQL and SQLite.
* Involved building Hadoop platforms, maximizing business value by combining data science with big data.
* Generated various graphs for business decision making using Python matplotlib library.
* Tested various regular expressions in URL Dispatchers in Django.
* Developed frontends using HTML5, CSS3, JavaScript and JQuery.
* Creating restful web services for Catalog and Pricing with Django MVT, Jersey, MySQL, and MongoDB.
* Designed and created the database tables and wrote SQL queries to access PostgreSQL.
* Analyzed and Designed workflows based on business logic.
* Designed user friendly Interface using Bootstrap framework.
* Wrote python code within the Hadoop framework to solve Natural Language Processing problems.
* Environment: Python, Django, JSON, REST, AWS, Hadoop framework, HTML, MVT, Mongo DB, JavaScript, Ajax, PyQT, PyUnit, PL/SQL, and Oracle SQL Developer

**Title: Sr. Python Developer Jan 2012 – Feb 2014**

**Client: SAPURA ENERGY**

**Responsibilities:**

* Developed a fully automated continuous integration system using Git, Gerrit, Jenkins, MySQL and custom tools developed in Python and Bash.
* Managed, developed and designed a dashboard control panel for customers and Administrators using Django, Oracle DB, PostgreSQL and VMWare API calls.
* Written Cloud formation templates and deployed AWS resourcing.
* Build application and database servers using AWS EC2 and create AMIs also using RDS for Oracle DB.
* Extensively used python modules such as requests, urllib, urllib 2 for web crawling.
* Developed the required XML Schema documents and implemented the framework for parsing XML documents.
* Written with object-oriented Python, Flask, SQL, Beautiful Soup, httplib2, Jinja2, HTML/CSS, Bootstrap, jQuery, Linux, Sublime Text, git.
* Having Knowledge on AWS Lambda, Auto scaling, Cloud Front, RDS, Route53, AWS SNS, SQS, SES.
* Gained Knowledge on Deploying apps using AWS Cloud Formation.
* Experience in using various version control systems like Git, CVS, GitHub, Heroku and Amazon EC2.

**Environment**: Python, Git, CVS, GitHub, Lambda, Heroku, Amazon EC2 Django 1.5, Selenium IDE, MySQL, Zopa, Angular.JS, Pandas, Flash, PyUnit, Open Stack, HTML, CSS, JQuery, JavaScript, Apache, Jira, Linux, Git, Cassandra, Windows, Linux.