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PROFESSIONAL SUMMARY

- 8+ years of software product development and CI/CD development and Durability analysis, Performance assessment and expertise in Project Planning & Cost analysis, Product Engineering, and software product development.
- Had fair knowledge on using NoSQL databases like Apache Cassandra (1.2, 2.0 and 2.1), Kubernetes and Mongo DB (2.6, 2.4), Orient DBF net and familiarity with GIT/Bitbucket or other source code management systems.
- Experienced in Python with ascertained proficiency in using new tools and technical developments (libraries used: libraries- Beautiful Soup, Jasy, NumPy, SciPy, matplotlib, Pickle, PySide, python-twitter, Panda data frame, networks, urllib2, MySQL dB for database connectivity) to drive .com
- Involved in all the phases of Software Development Life Cycle (SDLC) including Analysis, Design, Development, Integration, and Implementation of software product and user interface for end-user.
- Hands on experience in developing web applications to implement Model View Control architecture using Django, Flask, Pyramid and Zope Python web application frameworks.
- Strong knowledge with Spinnaker, cloud augmentation, containerization technologies, and Docker
- Skilled at design, code writing, debug operations, reporting, data analysis and web applications utilizing Python.
- Employed NumPy functions to clean, preprocess, and transform data for statistical analysis and machine learning models
- Accomplished expertise in Python development under Linux OS (Debian, Ubuntu, SUSE, RedHat Linux, and Fedora).
- Created a variety of static, animated, and interactive visualizations using Matplotlib to represent complex data clearly and effectively.
- Integrated Matplotlib with interactive widgets and GUI toolkits (such as Jupyter Notebook widgets) to create dynamic visualizations that allow for user interaction and exploration of data.
- Leveraged NumPy's vectorized operations to perform efficient element-wise computations, significantly improving the performance of numerical tasks.
- Works in partnership with key stakeholders from the Digital Platform team, security, enterprise architecture, and product owners to collaboratively address business and technological concerns.
- Upright knowledge on Object Oriented Programming concepts like abstraction, encapsulation, inheritance, and polymorphism.
- Implemented complex mathematical and statistical computations using NumPy, reducing computational time compared to native Python loops.
- Knowledge on Cloud innovations including Infrastructure as a Service, Platform as a Service, and Software as a service supplier (Iaas, PaaS, and SaaS).
- Automated the provisioning, configuration, and management of cloud infrastructure using Python scripts and libraries.
- Managed cloud resources on platforms like AWS, Azure, and Google Cloud, including virtual machines, storage, networking, and security settings.

- Competent in writing SQL Queries, Stored procedures, functions, packages, tables, views, triggers using relational databases like Oracle, MySQL, DB2.
- Skilled in developing test automation framework with Python scripting & Selenium.
- Fairly experienced in Agile Methodologies, PCI, Scrum stories and sprints experience in a Python based environment, Data analytics, data wrangling and Excel data extracts.
- Capable in Shell Scripting and UNIX commands.
- More generally, the system configuration is the specific definition of the elements that defineMore generally, the system configuration is the specific definition of the elements that define.
- I handle technological and business issues together with important stakeholders from the Digital Platform team, security, enterprise architecture, and product Clients..
- Automated deployment processes using Python scripts and tools to ensure smooth and efficient application releases.
- Developed and deployed scalable web applications and APIs on PaaS platforms such as AWS Elastic Beanstalk, Google App Engine, Azure App Services, or Heroku using Python.
- Exquisite in Interpersonal and communication skills, efficient time management and organization skills, ability to handle multiple tasks and work well in a team environment.
- Utilized PaaS features like auto-scaling, load balancing, and managed services (e.g., databases, caching) to optimize application performance and reliability.

TECHNICAL SKILLS

Programming Languages	C, C++, Python-3.7 & 2.7, SQL and Shell Scripting, GTK, Java, Minitab, I-Sight Python, MATLAB 2020a , Simscape, Flowcharts and Simulink, AUTOSAR, LS-PrePost Scripting, Python Scripting and Java Scripting, Jira, Rally, MS-Project, Primavera.
Python Libraries	Python, Django, Flask, Beautiful Soup, httplib2, Jinja2, HTML/CSS, Bootstrap, jQuery, Numpy, Matplotlib, Pickle, Pyside, SciPy, wxPython, PyTables, pdb
Frameworks	Django, Spark, web2py, pyramid, Flask, Mongodb, Hadoop/ Big Data and CSS Bootstrap, RASA
Technologies	HTML, CSS, DOM, SAX, Java Script, JQuery, AJAX, XML, AngularJS, Version Control GIT (GitHub), SVN, Terraform
Protocols	TCP/IP, HTTP/HTTPS, SNMP, SMTP
IDE's/ Development Tools	NetBeans, Android Studio, PyCharm, Eclipse and Sublime Text. IntelliJ IDEA
Version Control	GIT (GitHub), SVN,BitBucket
Application Tools	Net Beans, Eclipse (SE, EE, Android), Visual Studio, MySQL
Deployment Tools	Heroku, Jenkins, api developement

Tracking Tools	Bugzilla and JIRA.
Methodologies	Agile, Scrum and Waterfall
Databases	Access, SQL Server, MySQL, Teradata, Oracle, Hadoop/Hive
Software packages	MS Word, Advanced MS Excel-Macros and VBA, MS PowerPoint, SQL Plus
Reporting Tools	SSRS, Tableau, MS-Word, and MS-PowerPoint.
Operating systems	Linux/Unix, Windows Variants
Cloud Environment	AWS Services, EC2, ELB, VPC, RDS, AMI, IAM, Cloud formation, S3, Cloud Operating Systems

PROFESSIONAL EXPERIENCE

AT & T - USA   **March 2023 – February 2024**
PYTHON DEVELOPER
- Involved in analysis, specification, design, and implementation and testing phases of Software Development Life Cycle (SDLC) and used agile methodology for developing application.
- we created pipe lines for CI/CD pipelines for continuous integration for efficient delivery.
- Hands on experience in Rest APIs, AWS, Open Shift, Perl, BDDPL/SQL, Amazon Web Services AWS provisioning and good knowledge of AWS services like EC2, S3, Red shift, Glacier, Bamboo, ELB (Load Balancers), RDS, SNS, SWF and EBS etc. and Azure.
- Conducted exploratory data analysis (EDA) with pandas to uncover patterns, correlations, and insights from large datasets.
- Participated in requirement gathering and analysis phase of the project in documenting the business requirements by conducting workshops/meetings with various business users.
- Containerized and deployed the ETL and REST services on AWS ECS through the CI/CD Jenkins pipe. Worked on optimizing and memory management of the ETL services.
- Used Python Scripts to retrieve the vehicle data from back-end system to help the customers and dealers based on VIN (vehicle identification number).
- Performed Data mapping between source systems to Target systems, logical data modeling, created class diagrams and ER diagrams and used SQL queries to filter data.
- Used various techniques using R data structures to get the data in right format to be analyzed which is later used by other internal applications to calculate the thresholds.
- Applied various machine learning algorithms and statistical modeling like decision tree, logistic regression, Gradient Boosting Machine to build predictive model using scikit-learn package in Python.
- 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.
- Wrote and executed various MYSQL database queries from Python using Python-MySQL connector and MySQL db package.
- ThoughtSpot Modeling Language (TML) files programmatically.
- ThoughtSpot Modeling Language using SQL.
- Created functions and assigned roles in AWS Lambda to run python scripts, and AWS Lambda using java to perform event driven processing.
- Utilized the Amazon's lambda web service to run code virtually.

- Responsible for using the AWS tools like RDS, Cloud watch, EC2, Elastic load Balancer, Route53, KMS, SNS, S3, Lambda Functions, and IAM.
- Integrated data from various sources (e.g., CSV, Excel, SQL databases) into pandas DataFrames for comprehensive analysis.
- Used the AWS -CLI to suspend on Aws Lambda function used AWS CLI to automate backup of ephemeral data stores to S3 buckets EBS.
- Merged, joined, and concatenated multiple DataFrames to create cohesive datasets for further analysis.
- Created Python scripts to totally automate AWS services which includes web servers, ELB, Cloud Front distribution, database, EC2 and database security groups, S3 bucket and application configuration, this script creates stacks, single servers, or joins web servers to stacks.
- Configured the CI/CD pipeline for deploying Microservices and Lambda functions with Jenkins.
- Created a full web stack using AWS Infrastructure (Beanstalk, multiple lambdas, Amazon Aurora, API Gateway etc) to create a fully functioning API using GraphQL technology with multiple data sources.
- Worked with React.js, GraphQL and node.js full stack development.
- Involved in GraphQL server, created model, resolver, and schema to interact with client-side. Worked on deploying Linux SuSE 10, 11 and 12 versions.
- Upgraded from Linux SuSE version 10 to 11 and from 11 to 12.
- Implemented Okta Single Sign-on Authentication for several applications making using of Python SDKs, SAML and OpenID Connect.
- Azure cloud Merge with python to store the data into cloud with High security.
- Development of new IPTV/IP Video SaaS lines of business for major satellite operators (Intelsat, SES); Enterprise Used PySpark-SQL to load JSON data and create schema RDD, Data Frames and loaded it into Hive Tables and handled Structured data using Spark-SQL.
- Developed views and templates with Python and Django's view controller and templating language to create a user-friendly interface using MVC architecture.
- Utilized Python Libraries like Boto3, NumPy for AWS. Used Pandas library for statistical Analysis.
- Using Git version control tool to coordinate team-development.
- Good experience in writing Spark applications using Python and Scala.
- Experienced in developing data processing tasks using pySpark such as reading data from external sources, merge data, perform data enrichment and load in to target data destinations.
- Worked on design, build and unit test applications on Spark framework on Python.
- Worked on several python packages like Matplotlib, Pillow, NumPy, SQL Alchemy, and sockets.
- Implemented AWS high availability using AWS Elastic Load Balancing (ELB), which performed balance across instances.
- Involved in development of Web Services using SOAP for sending and getting data from the external interface in the XML format.
- Responsible for debugging the project monitored on JIRA (Agile).

Environment: Windows, Python3.7, Angular JS, libraries - (NumPy, SciPy, Pandas, SNMP, PyCharm, PyQuery, Matplotlib), SQL Alchemy,Terraform, MVC, Linux Suse, HTML5, Scala, Ansible, OAuth 2.0, Google Suite, Slack, OIDC, Kubernetes, Kafka, Shell Scripting, JSON, Apache Web Server, SQL, UNIX.

ASPIRE TECHNOLOGIES   **Mar 2018-NOV 2022**
Python Developer
- Developed back-end components using Python 3.7 on Django 1.7 framework and front-end using HTML5, CSS/CSS3, JavaScript to improve responsiveness and performance of Web application.

- Understanding of SQL queries and database management system such as PostgreSQL.
- Worked on application using python integrated IDEs like Eclipse, IntelliJ, Sublime Text and PyCharm.
- Installed data sources like SQL-Server, Cassandra and remote servers using the Docker containers as to provide the integrated testing environment for the ETL applications.
- Written Ansible Playbooks with Python SSH as the Wrapper to Manage Configurations of Azure Nodes and Test Playbooks on Azure instances using Python SDK and automated various infrastructure activities like continuous deployment, application server setup, stack monitoring using Ansible playbooks.
- Azure cloud Merge with python to store the data into cloud with High security.
- Worked on google cloud platform (GCP) services like compute engine, cloud load balancing, cloud storage, cloud SQL, stack driver monitoring and cloud deployment manager.
- Written Hive queries for data analysis to meet the business requirements.
- Creating Hive tables and working on them using Hive QL.
- Importing and exporting data into HDFS and Hive using Sqoop.
- Involved in creating Hive tables loading with data and writing hive queries which will run internally in map reduce way.
- Developed numerous new features and enhancements for the Web application using Python/Django, HTML/CSS/JavaScript, as well as automating our development environment using Ansible.
- Developed and maintained an infrastructure for a new project using Ansible, Redis, Postgres and Celery.
- Worked on optimizing and memory management of the ETL applications developed in Go-Lang and python and also reusing the existing code blocks for better performance.
- Provided ongoing maintenance, support and enhancements in existing systems and platforms, bug fixing and tracking (JIRA) and managing new application modules.
- Developed and executed White box test cases using Python, Unitest/Pytest/Robot framework & PyCharm/Ride.
- Generated code-gen for typescript GraphQL server-side and client-side Built GraphQL server as node package.
- Created GraphQL resolvers, schemas, and data sources, so that can communicate with OpenShift APIs. Provision RHEL and SUSE server for SAAS based application leveraging chef recipes.
- Development of new IPTV/IP Video SaaS lines of business for major satellite operators (Intelsat, SES); Enterprise Developed dynamic web pages using python Django Frameworks and developed various templates for different customers and saved their user preferences.
- Microservice architecture development using Python and Docker on an Ubuntu Linux platform using HTTP/REST interfaces with deployment into a multi-node Kubernetes environment.
- Developed web applications and REST full web services and APIs using Python, Django. Developed tools using Python, XML to automate some of the manual tasks.
- Used Python Flask framework to build modular and maintainable applications.
- Used Celery with Django to complete asynchronous tasks, like huge report generation, sending mails to respective people.
- Wrote and executed various PostgreSQL database queries from python using Psycopg2 connector. Involved in Agile methodology and scrum process.
- Strong proficiency in C++, with fair knowledge of the language specification
- Thorough knowledge of the standard library, STL containers, and algorithms
- {{Specify any platform(s) that you want the developer to have a strong grasp of}}
- Good understanding of memory management in non-garbage collected environments.

- Understanding of dynamic polymorphism and C++ specific notions, such as friend classes
- Familiarity with templating in C++
- Knowledge of the latest C++11 standard
- Familiarity with embedded systems design, low-level hardware interactions
- Knowledge of low-level threading primitives and real-time environments
- Familiarity with system call wrapper library functions.
- Knowledge of writing native modules for high-level languages such as Node.js, Python, Go, etc.
- Familiarity with language tools, such as Valgrind.
- Knowledge of component data sheets and specifications
- Implementation of automated testing platforms and unit tests
- Proficient understanding of code versioning tools
- Familiarity with continuous integration
- Co-ordinated and organized day-to-day meeting, status meeting, strong reporting and effective communication with project manager and developers.

Environment: Python 3.7, AWS,Terraform, Devops, Linux Suse, Google Suite / Smartsheets, Slack ,OAuth 2.0, OIDC, Ansible, Kubernetes, Django, Django Rest, Flask, React, Redux, Circle CI, Vagrant, Splunk, New Relic Server, GitHub, Ansible, HTML5/CSS,SNMP, PostgreSQL, Amazon Web Service (AWS), S3, EC2, EBS, PyCharm, Microsoft Visual Code, Linux, Shell Scripting, JIRA, Hadoop, C, C++

PowerMech Projects Ltd, Hyderabad, India   **Aug 2014 – Jan 2018**
PROJECT ENGINEER- Python Scripting
- Worked as primary point of contact for all technical activities include presales, technical support, consulting, and training for Computer Aided Engineering (CAE) systems.
- Running solver benchmarks. Identify custom solutions, additional training, and special attention.
- Involved updating inefficient customer processes to efficient processes using CAE automation.
- Interaction with the Development and Marketing teams during preparation phase for deployment.
- Organized and conducted onsite User Acceptance Testing for Beta versions of CAE systems.
- Worked on MS-Excel for data processing using the macro recorder.
- Importing data from other files to MS-Excel and exporting data to text files
- Automated repetitive tasks and accelerated the workflow of a business. This is done using the Visual Basic for Applications and Macros.
- Analyzed complex data to develop automated reporting with VBA and Excel.
- Created macros to work with a huge amount of data and for Excel reports.
- Developed VBA programs to perform tasks automatically.
- Dealt with advanced Excel capabilities – formulas, tables, and graphs.
- Comprehensive knowledge of MS Excel application – Pivot Tables, Formulas
- Supported simulation activities in the design community.
- Identified and prioritized strategic long term and short-term technical activities in support of accounts.
- Coordinated meetings with technical counterparts to execute the planned activities at customer sites.
- Customers are acknowledged with technical skills through enhanced training.
- Use Advanced Excel capabilities, including pivot tables, lookups, complex formulas and graphing to streamline business processes.
- Ability to debug/code difficult functions/macros using VBA.
- Established support processes and metrics for the account using JIRA workflows.

- Reviewed account technical support activities and metrics to ensure appropriate follow-up, recognizing usage trends and training needs.
- Executed various User interface design testing is and successfully involved in development of the CAE-tool-User Interface.
- Designed and developed the server module and resolved issues and responsible for its enhancements.
- Architected and developed Python and Django for the backend development and front-end application using React, Webpack, Redux, and ES6/7 and PostgreSQL for the database.
- Worked on Django ORM module for signing complex queries.
- Load balancing of ETL processes, database performance tuning ETL processing tools. Loaded the data from Teradata to HDFS using Teradata Hadoop connectors.
- Defined different Django API profiling techniques for faster rendering information. Used Ansible, Vagrant, and Docker for managing the application environments.
- Developed Python scripts for testing the car functioning on different services.
- Implemented various Validation Controls for form validation and implemented custom validation controls using Object Oriented JavaScript.
- Developed Restful Microservices using Flask and Django and deployed on AWS servers using EBS and EC2. Developed views and templates with Django view controller and template to create a user-friendly website interface.
- Worked on java developing or java programming/scripting, Django and RabbitMQ queues. Imported data using Sqoop to load data from MySQL to HDFS on regular basis.
- Used Circle CI for continuous integration and delivery platform over GIT. Used Django Migrations for designing and expanding of the database.
- Automated most of the daily task using python scripting.
- Involved in the CI/CD pipeline management for managing the weekly releases.
- Worked on Jira for managing the tasks and improving the individual performance.
- Making recommendations to the team in terms of appropriate testing techniques, shared testing tasks.

3i Infotech Hyderabad, India   **Oct 2013 – Mar 2014**
PROJECT ENGINEER- Python Scripting

Used Python 3.9 for validating, testing, and building for the backend logic.
Angular framework is used for the UI pages using Typescript, HTML, CSS, NodeJS
Created Typescript reusable components and services for the JSON based REST API calls for
the Flask micro web-service using Angular framework.
Used SQL and PLSQL for interacting with the data in the PostgreSQL database.
Troubleshooted the performance related issues on Postgres instance using performance
insight and query plan management (QPM).
Worked on GIT as a version control, pycharm code as the source code editorCreated scripts in python which integrated
with Amazon API to control instance operations.
Well versed with testing the script using Pytest, Unit test and proprietary test modules

Environment: Python 2.7, AWS, Devops, Django, Django Rest, Flask, React, Redux, Circle CI, Vagrant, Splunk, New Relic Server, GitHub, Ansible, HTML5/CSS, PostgreSQL, Ansible, Kubernetes, Amazon Web Service (AWS), S3, EC2, EBS, PyCharm, Microsoft Visual Code, Linux, Shell Scripting, JIRA.