**Varun Konduru**

**Senior Python Developer**

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**PROFESSIONAL SUMMARY**

* Over 8 years of hands-on experience as a Python Developer, specializing in designing and implementing robust applications.
* Skilled in creating web UI using AngularJS, TypeScript, JavaScript, HTML, and CSS.
* Proficient in managing AWS infrastructure using Boto3, including deployment on AWS EC2 instances and configuration of resources such as EC2 instances, S3 buckets, and RDS databases.
* Experienced in automated AWS deployment with Boto3 Library.
* Demonstrated expertise in programming with Python, PySpark, and SQL, contributing to the development of robust data engineering solutions.
* Implemented automation of code deployment using containers, leveraging Docker and Kubernetes for efficient and scalable deployments.
* Extensive experience with cloud platforms such as Azure and AWS, including provisioning, configuration, and management of cloud resources.
* Implemented CI/CD automation using Git for version control, ensuring code quality and collaboration among team members.
* Hands-on experience with data science techniques and tools, contributing to the development of data-driven solutions and insights.
* Integrated machine learning solutions into applications, making them more automated and personalized for users, all powered by Python.
* Developed runbooks and documentation to capture platform configurations, best practices, and troubleshooting procedures, ensuring knowledge transfer and enabling efficient platform support.
* Collaborated extensively with interdisciplinary teams to drive innovation and scalability in application development.
* With a track record of delivering high-quality code, optimizing solutions for efficiency, and driving continuous improvement, I am well-equipped to tackle complex projects and contribute effectively to your team.
* Proficient in UNIX/Linux shell scripting for job scheduling, batch-job automation, and other tasks.
* Experienced in using ETL tools for data cleansing and data warehouse operation.
* Sound knowledge in Python machine learning algorithms, including Logistic Regression for Predictive Analysis.
* Familiarity with Python testing frameworks such as selenium, PYTEST, PYUNIT, ROBOT, and PYWINAUTO32.
* Utilized Apache Kafka for messaging in financial systems, ensuring reliable and asynchronous exchange of critical information.
* Skilled in managing Docker orchestration and containerization using Kubernetes, ensuring efficient deployment and scaling of applications.
* Designed and developed RESTful APIs using Python, facilitating communication between different components of applications.
* Integrated third-party APIs and optimized API performance for seamless data exchange and system interoperability.
* Extensive experience in version control systems using CVS, SVN, Git/GitHub, and issue-tracking tools like Jira and Bugzilla.
* Developed frameworks and automated workflows using Python for Test Automation, ensuring efficient and reliable testing processes.
* Proficient in setting up CI/CD pipelines using tools such as Jenkins, Bitbucket, GitHub, Maven, Nexus, and VSTS.
* Experience in integrating code quality tools such as SonarQube into CI/CD pipelines to ensure code quality.
* Skilled in server-side technologies with RESTful API and MVC design patterns, utilizing Node.js and Django framework.
* Proficient in using Python ORM libraries including Django ORM and SQL Alchemy for database operations.
* Extensive experience in using Kubernetes to orchestrate the deployment, scaling, and management of Docker containers.
* Played a key role in the development of data integration solutions, ensuring seamless data flow and scalability.
* Demonstrated adaptability and effective problem-solving in dynamic and challenging environments.
* Proficient in designing and architecting Python-based applications tailored for large-scale data processing, with expertise in Hadoop technologies.
* Actively contribute to the development and enhancement of scalable Python applications, ensuring seamless integration with Hadoop frameworks.
* Stay abreast of emerging technologies and industry trends to drive continuous improvement in application design and maintenance.
* Experienced in working with different operating systems such as Windows, Linux, UNIX, and Mac, with strong development experience on Linux-based operating systems.
* Proficient in navigating the Kubernetes ecosystem, orchestrating containers for scalable and resilient applications.
* Experienced in building modern applications using various JavaScript frameworks like Angular, ReactJS, TypeScript, NodeJS, NextJS, and Bootstrap.
* Created responsive and interactive user interfaces using ReactJS, delivering engaging web experiences for users.
* Extensive experience in using Vue.js to create simple APIs and implement two-way data binding for efficient data manipulation.
* Excellent interpersonal and communication skills, efficient time management, and organization skills, with the ability to handle multiple tasks and work well in a team environment.Top of Form

**TECHNICAL SKILLS:**

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| **OS Platforms** | Linux/Unix, Windows-98/NT, MAC OSX |
| **UI Frameworks** | UI, JavaScript, React JS, Ajax, JQuery, Bootstrap, Angular JS |
| **IDE Tools** | Spring Tools Suite, Eclipse, IntelliJ, Net beans and Sublime Text |
| **XML Technologies** | XML, DOM, XSL, DTD, WSDL and XSLT |
| **Languages** | Python 3.x/2.x, R, Java, Shell Script |
| **Databases** | MySQL, SQL Server 2008, PostgreSQL  |
| **Web Technologies** | AJAX, AWS EC Cloud, Amazon S3 JavaScript, HTML, DHTML, XHTML, XML  |
| **Web development** | Rest, Soap, WSDL, XML, SOA, Apache CXF, Apache Axis 2, WSDL |
| **Versioning Tools** | Git, SVN  |
| **Web servers** | Apache |
| **Frameworks** | Django, Web2py, Pyramid, Flask, Pylons Frameworks |
| **Other Tools** | Putty, Informatica, SQL developer, Photoshop, JIRA, Open stack |
| **IDE Tools** | Spring Tools Suite, Eclipse, IntelliJ, Net beans and Sublime Text |
| **Testing Tool** | JUnit, Mockito, POSTMAN and SOAP UI |

**Education Details:**

**Bachelor of Technology in Information Technology at Malla Reddy Institute of Technology, 2015**

**Master’s in computer technology at Eastern Illinois University, May 2023.**

**PROFESSIONAL EXPERIENCE**

**Client: Honeywell**, **TX Jan 2023 to Till Date**

**Role: Senior Python Developer**

**Responsibilities:**

* Involved in various phases of Software Development Life Cycle (SDLC) of the application like requirement gathering, Design, Analysis and Code development.
* Involved in organizing meetings to know the needs of clients for the Enterprise solution Implementation. Written python module to view and connect to AWS S3 instance.
* Constructed product-usage data aggregations using Py-Spark, Spark SQL and maintained in AWS S3 location for reporting, data science dash boarding and ad-hoc analyses.
* Developed server by using Django framework, writing routes and queries to build Restful API.
* Developed Web based Dynamic Form Builder using HTML5, CSS3, React JS and JavaScript Object-to-XML.
* Worked on developing Web Services with Python programming language and processed large datasets with Spark using PySpark.
* Parsed the unstructured data into semi-structured format by writing complex algorithms in Pyspark.
* Worked with JSON based REST Web services and Amazon Web services (AWS).
* Used AJAX to modify small portions of the web pages by sending a request to the server avoiding the need of reloading the entire web page.
* Designed and developed Web services using XML and JQuery.
* Created PL/SQL stored procedures, functions and packages for moving the data from staging area to data mart.
* Worked in DevOps group running Jenkins in a Docker container with EC2 slaves in Amazon AWS cloud and GCP configuration.
* Worked on Google Cloud Platform (GCP) to create scalable and cost-effective solutions, using services like Compute Engine, Big Query, and Cloud Storage.
* Designed and managed secure cloud setups for different applications, making sure they run smoothly on GCP.
* Used Azure cloud storage for storing huge number of messages with Kafka in an azure instance as a message broker.
* Managed and deployed Microservices onto Docker using Puppet.
* Developed (TDD) and continuous integration using JUnit, JBehave and Jenkins.
* Used Amazon Elastic Beanstalk with **Amazon EC2** to deploy project into AWSWrote modules in Python to connect to **MongoDB** with **PyMongo** and doing **CRUD** operations with MongoDB
* Developed Web based Dynamic Form Builder using HTML5, CSS3, React JS and JavaScript Object-to-XML.
* Experienced in writing test-cases in PHP environment using K6.
* Expertise in PHP for supporting Java, Multithreading, Exception Handling, Struts, Spring, Spring MVC Hibernate, RESTAPI, Enterprise java Beans, JDBC Hands on experience in DBMS like Oracle, Node.js, MySql, MS-Sql, Toad, Crud, Postrage Sql React JS.
* Strong experience in PHP OOP, Magento, Eloquent, Model View Controller (MVC) and Repository Pattern. Worked on IDE's like PhpStrom, Eclipse and Sublime Text.
* Worked on Angular.JS to augment browser applications with MVC capability.
* Designed the front end of the application using Python.
* Developing Python Framework using Django to perform scan software unit monitoring.
* Developed front-end and back-end of the application using python on Django web framework.
* Involved in Developing a Restful API'S service using Django framework.
* Used Django framework to develop the application and used Python modules such as requests and urlib2 for web crawling.
* Involved in building database Model, APIs and Views using Python, to assemble an intelligent online arrangement.
* Implemented security best practices using Boto3, ensuring IAM role and permission configurations and compliance with standards.
* Integrated Boto3 with AWS CloudWatch for monitoring and alarms, collaborated with CI/CD pipelines for automated deployments and testing.
* Provided support for AWS-related issues, leveraging Boto3 and AWS CLI for debugging and troubleshooting.
* Stayed updated on the latest AWS services, incorporating new technologies into Boto3-based workflows for continuous improvement.
* Used Python based GUI segments for the front-end usefulness, for example, choice criteria, created test outfit to empower exhaustive testing using Python.
* Wrote python scripts to parse XML documents and loaded the data in database.
* Wrote Python normalizations scripts to find duplicate data in different environments.
* Generated Python Django forms to record data of online users and used PyTest for writing test cases.
* Involved in writing scripts using python modules and its libraries like React JS NumPy, Scipy, Matplotlib, Pandas to develop programs that improve processing of access requests.
* Involved in automating data movements using python scripts, involved in splitting, validating and processing of files.
* Involved in Agile Methodologies, Scrum stories and sprints experience in a Python based environment.

**Environment**: Python 3.x, Django, HTML5, CSS3, JavaScript, Angular.JS, MVC, Numpy, Pandas, Matplotlib, urlib2, XML, AWS, PyTest, PySpark, React JS AJAX, JQuery, PL/SQL, Agile and Windows.

**Client: BNY Mellon Corporation, NY May 2022 to Dec 2022**

**Role: Sr. Python Developer**

**Responsibilities:**

* Did full-page caching well using Varnish and could handle massive traffic without breaking a sweat.
* Designed and implemented a complete Machine learning architecture pipeline from scratch utilizing Machine Learning Operations (MLOps) pipelines and procedures that helped interns and coworkers add new functionality
* Experienced in taking advantage of Nginx in combination with Apache by using it as a reverse proxy.
* Performed Exploratory Data Analysis (cleaned, visualized & MapReduce) and further customized ETL pipelines for greater data availability and created a unified source of quality data and performed A/B Testing on it
* Supported development of Web portals, completed Database Modelling in PostgreSQL, front end support in
* HTML/CSS, JQuery.
* Collaborated with the team to efficiently develop Machine Learning models in an Agile Environment.
* Orchestrated AWS infrastructure using Boto3, streamlining the creation, React JS modification, and deletion of various resources.
* Implemented dynamic scaling solutions in AWS environments using Boto3 to adapt to fluctuating workloads.
* Collaborated with cross-functional teams to design and implement resilient, fault-tolerant AWS architectures using Boto3.
* Employed Boto3 for managing AWS Lambda functions, enabling serverless computing for efficient and cost-effective solutions.
* Automated AWS resource tagging using Boto3 to enhance resource organization, tracking, and cost allocation.
* Optimize pre-processing data using multi-processing Python tool to change data into Numpy format, using less amount of RAM and altering data structure algorithms to reduce run time by 50%
* Debugging the application and following messages in log files, to figure out the error if existing.
* Designed and maintained databases using Python and developed Python based API (RESTful Web Service) using Flask,
* SQL Alchemy and PostgreSQL.
* Involved in analysing the problems using transaction breakdown, network monitoring and resource monitoring to find
* the performance bottleneck.
* Implemented NLP in understanding the question by some keywords that are extracted from images using OCR and word2vec and used the yolov5 model to detect the content and shape from the document then create a flask application dockerized & deployed.
* Maintained and monitored frameworks like Django, flask
* Worked on optimization of YOLOv3, Zero-Short-Learning, and GANs algorithms and reduced their training time by 50%.
* Developed monitoring application which captures the error related data and store it in database.
* Involved in scrubbing project, which updates the existing data with hashed values.
* Created Python scripts to perform ETL processes using Glue, React JS Lambda, and Sage Maker.
* Built Excel and Tableau dashboards, tools, and ad-hoc reports to improve reporting, analytics, and visualization needs while working collaboratively with stakeholders and delivering projects on time in an Agile team environment.
* Reverse engineer and re-implement legacy back-end software into Python with minimal downtime.
* Work closely with project leads to learn about the Azure services, environment deployment, and integration with tooling.
* Performed Convolutional Neural Network techniques on facial and fingerprint data, and created a model that predicted whether a employee in the live footage is authorized with the record, with the prediction accuracy of 95%
* Used GitHub as a version control.
* Worked on UNIX environment.
* Optimized system performance and managed the API lifecycle
* Performed unit testing.
* Worked closely with leads in implementation exposure on service based, SOA, RESTful technologies.
* Strong experience in developing Micro-services using Drop wizard, React JS Spring Boot, Lagom.
* Work experience with Java Frameworks like spring, Hibernate.
* Developed **Snowflake**-backed data marts and integrated Power BI with Azure Data Factory for interactive reporting, thus fueling data-centric business decisions.
* Championed **ETL** processes using tools like **Azure** Data **Factory** and **SSIS**, with custom Python scripts. This method streamlined the extraction from various data sources and integration into Data Warehouses, enhancing data-driven insights.
* Pivoted the company's IT infrastructure from on-premise solutions to the **Microsoft** **Azure** Cloud platform, demonstrating expertise in Azure Recovery Vault and crafting Azure environments.
* Established a formidable Identity and Access Management strategy on Azure Active Directory by optimally utilizing Python and Azure services, ensuring top-tier security and governance.

**Environment:**Python, Drop wizard, Spring Boot, React JS Lagom, Kafka, JSON, GitHub, LINUX, Django, Flask, Varnish, Nginx SOA, REST

**Client: Cyient Inc, India Apr 2019 to Nov 2021**

**Role: Python Developer**

**Responsibilities:**

* Wrote Python scripts to parse XML documents and load the data in database.
* Developed tools using Python, Shell scripting, XML to automate some of the menial tasks. Interfacing with supervisors, artists, systems administrators and production to ensure production deadlines are met.
* Used JavaScript and JSON to update a portion of a webpage.
* Developed multi-threaded standalone app in Python to view Circuit parameters and performance.
* Developed entire frontend and backend modules using Python on Django Web Framework.
* Developed multi-threaded standalone application in Python, PHP, C++ to view Circuit parameters and performance.
* Designed views and templates with Python Django's view controller and templating language to create a web interface.
* Developed Business Logic using Python on Django Web Framework.
* Involved in back-end development using Python with Flask framework.
* Worked on front end frame works like Bootstrap for responsive Webpages for Single page application.
* Conducted regular audits of AWS resources using Boto3 scripts, ensuring compliance with organizational policies and guidelines.
* Integrated Boto3 scripts into AWS CloudFormation templates for efficient provisioning and management of infrastructure as code.
* Utilized Boto3 to configure and manage AWS networking components, including VPCs, subnets, and security groups.
* Implemented disaster recovery strategies in AWS using Boto3, ensuring data integrity and availability in case of failures.
* Extended Boto3 functionalities to interact with AWS services like SNS and SQS for streamlined communication between distributed components.
* Developed Python batch processors to consume and produce various feeds.
* Successfully migrated the Django database from SQLite to MySQL with complete data integrity.
* Created test harness to enable comprehensive testing utilizing Python.
* Performed testing using Django's Test Module.
* Architected and developed Python and Django for the backend development and front-end application using PostgreSQL for database.
* Provided GUI utilizing PyQt for the end user to create, modify and view reports based on client data.
* Prepared test data files using Linux Shell scripts, Perl script as per the business requirements.
* Worked in consuming RESTful web services using jQuery and React.js along with JSON parsing to render the response data to User Interface.
* Designed and developed data management system using MySQL.
* Used python scripts to update content in the database and manipulate files.
* Developed web applications implementing MVT/MVC architecture using Django, Flask.
* Worked on API's deploying queries, status codes, requests to retrieve data in JSON format
* Coordinated with team members to improve quality assurance and mitigate risks.

**Environment**: Python, PyQt, PyQuery, Django, MVW, HTML5/CSS3, Shell Scripting, JSON, NumPy, jQuery, GitHub, MVT/MVC, SQL, Oracle, Windows.

**Client: Peri Software Solutions-India May 2017 to Mar 2019**

**Role: Junior Python Developer**

**Responsibilities:**

* Deployed Django rest automation framework called as Controller on one instance (EC2).
* Manage and monitor multiple instances with windows platform where test execution happens through Ansible.
* Develop Ansible YMAL task script file for executing different multiple file.
* Develop API which creates EC2 instance in could and configure YMAL file to execute 400 test suits in daily execution.
* Develop Framework for unit testing, functional testing, regression testing for the MacAfee product.
* Leveraged Boto3 for automating the backup and restoration processes of AWS RDS databases, ensuring data integrity.
* Collaborated with DevOps teams to implement blue-green deployments on AWS using Boto3, minimizing downtime during releases.
* Enhanced Boto3 scripts for AWS CloudTrail integration, providing detailed audit logs for security and compliance.
* Implemented fine-grained access control using Boto3, ensuring secure and least-privileged access to AWS resources.
* Utilized Boto3 to configure and manage AWS Elastic Load Balancers, optimizing application performance and availability.
* Conducted training sessions for team members on best practices and advanced techniques for Boto3 and AWS management.
* Integrated Boto3 scripts into CI/CD pipelines for continuous deployment and testing in AWS environments.
* Collaborated with AWS support services, utilizing Boto3 to streamline communication and issue resolution.
* Contributed to the creation and maintenance of documentation for Boto3 scripts, ensuring knowledge sharing within the team.
* Participated in AWS community forums and discussions, staying informed about industry trends and best practices for Boto3 and AWS.
* The framework developed in Django rest framework. Using this framework User can validate the product with multiple operating system at same time and get the result same time.
* Developed rest API in python which connect vSphere with multiple VMS act as runner.
* Develop rest API for adding TEST suit and TEST plan, execute, publish result.
* This framework has intelligence to describe test script issue or product issue
* Based on analysis logged in zira and categories the defects
* Also do defect analysis, crash monitor, data analytics

**Environment:**Rest API(Requests), Python, Pytest, pywinauto, PYQT, Django, Angular Js, Jenkin Python API, SQL, EC2, Ansible

**Client: Mindgrep, India May 2015 to Apr 2017**

**Role: Software Developer**

**Responsibilities:**

* Done the analysis for different business functionalities
* Done version upgradations and thread hanging problem solution
* Done Rest API for the RI database and been part of that.
* Different design work and sequence diagrams
* Design and development to give best solutions.
* Captured some database bugs for the Customer API also.
* Given training to others and framework execution training.
* Done the initial analysis of the project
* Got the necessary details of different tools to be converted
* Worked for the conversion of Excel data to MySQL Schema and data upload
* Done the work for the report form of the data by Angular js and UI grid
* Given the way for Editing the data and storing the data in the backend database
* Done the Report Creation with the different fields.
* Done the calculation module for excel macros.
* Done fine tuning and integrations
* Worked on LG health watch Rest API automation:
* Written Rest API script for all the API (POST, GET, UPDATE, DELET)

**Environment:**PYTHON, PYTEST, MySQL, Angular Js, UI grid, Json calls for the Rest API, Angular js controller frameworks, python built in modules, json, Rest API, Pytest.