Mohammed Ibrahim

Python Developer

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SUMMARY

Highly skilled and results-driven Python Developer with over 9 years of hands-on experience in building scalable, secure, and high-performance software systems across industries such as healthcare, finance, and telecommunications. Adept in architecting backend solutions using Python, with deep expertise in Django, Flask, and FastAPI, as well as proficiency in crafting seamless frontend integrations using Angular, HTML, CSS, and Bootstrap.

Well-versed in cloud services including AWS and Oracle Cloud Infrastructure (OCI), and experienced in developing microservices, RESTful APIs, and automated data pipelines. Demonstrates a strong foundation in full-stack development, version control, and Infrastructure as Code (IaC) using tools like Terraform and Jenkins. Excels in collaborative, Agile environments, providing clean, maintainable code and mentoring team members through effective code reviews and knowledge sharing.

WORK EXPERIENCE

October 2021-March 25

Python Developer

🏢 Endeavor Health

◎ Chicago, Illinois, United States

Responsibilities:

- Built scalable microservices in Python, adhering to PEP 8 standards and leveraging FastAPI, Flask, and Django.

- Created RESTful APIs and integrated with front-end systems built in React and Redux.

- Played a key role in a cloud cost optimization initiative ("Rightsizing") by scripting automation in Python and Node.js to manage AWS, EBS, and RDS resources—reduced cloud costs significantly.

- Optimized Angular application performance by implementing lazy loading and modular routing to reduce initial load time and improve user experience

- Led backend implementation for a data visualization portal using FastAPI and AWS Quick Sight.

- Automated ETL pipelines using Pandas, NumPy, and Spark, ensuring data integrity across AWS S3 and RDS.

- Developed Lambda functions to trigger cloud automation tasks, integrated with SQS, Event Bridge, and CloudWatch.

- Built web interfaces using Django, jQuery, Bootstrap, and AJAX for network management systems.

- Designed Node.js APIs to handle high-volume data transactions between services.

- Spearheaded the migration of legacy infrastructure to AWS CDK and Terraform, reducing deployment time by 30%.

- Maintained CI/CD workflows via AWS Code Pipeline, integrated with Git and CloudFormation templates.

- Collaborated cross-functionally with UI/UX and DevOps teams to ensure seamless deployments and reliable infrastructure.

Environment: Python 3.11, Fast API, AWS QuickSight, MySQL, Snowflake, Kubernetes, AWS, Kafka, EKS, Event Bridge, CI/CD, Terraform, PowerBI, Tableau, Amazon SQS, OCI, EBS, RDS, JavaScript, NodeJS, microservices, Docker, Oracle Cloud Infrastructure (OCI), HTML, CSS, JavaScript, Terraform, React.JS, Bootstrap, qTest, Allure Reports, API, Postman

February 2019-July 2021

Python Developer

🏢 Synchrony Bank

📍 India

Responsibilities:

- Developed backend services with Django and Flask, with a focus on stability and performance.
- Maintained data feeds using Python batch processors; wrote robust SQL queries and PL/SQL scripts.
- Led a project to migrate databases from SQLite to MySQL, ensuring 100% data accuracy post-migration.
- Built Celery workers to handle task queues and scheduled processes.
- Connected AngularJS frontend with Flask/Django APIs to visualize data pipelines and transaction processing statuses in real-time.
- Created REST APIs consumed by internal tools and external services.
- Implemented infrastructure-as-code using Terraform and automated DR setup on AWS using CloudFormation.
- Managed CI/CD with Jenkins pipelines for consistent build and deployment cycles.
- Integrated AWS S3, Lambda, and RDS for serverless solutions, enabling scalable API services.
- Used Boto3 to build automation tools for managing EC2, S3, and IAM roles.

Environment: Python, Django, PostgreSQL, MySQL, AWS (Lambda, RDS, CloudWatch, S3), Kafka, Terraform, Jenkins, AngularJS, HTML/CSS/JavaScript, REST APIs

June 2017- February 2019

Python Developer

🏢 Verizon (Tech Mahindra)

📍 India

Responsibilities:

- Created microservices in Python and Golang, designed for high performance and fault tolerance.
- Automated reporting and application health monitoring tools using Python and Salt Stack.
- Built web interfaces using Django, jQuery, Bootstrap, and AJAX for network management systems.
- Developed SOAP and REST APIs and deployed services via Tomcat on AWS EC2 instances.
- Implemented Bootstrap-powered AngularJS templates for internal tools, ensuring usability and consistency with corporate design systems.
- Built infrastructure automation scripts for VM provisioning and software deployments using Ansible and Terraform.

- Monitored and improved application performance with Firebug and JIRA issue tracking.
- Played a key role in deploying applications on Kubernetes using Helm charts.
- Integrated PostgreSQL and MongoDB into analytics pipelines with ORM mapping and automated backups.

Environment: Python, Django, Golang, Kafka, PostgreSQL, MongoDB, Ansible, Terraform, Docker, Kubernetes, Jenkins, Elastic Search, Apache Cassandra

EDUCATION

Master of Science – Information Systems Technology

Lindsey Wilson College | Columbia, KY

MBA – Information Technology

Hellenic American University | Nashua, NH

Bachelor of Science – Biotechnology

Osmania University | Hyderabad, India

CERTIFICATION

AWS Cloud Practitioner Associate

KEY SKILLS

Languages & Frameworks:

Python, Golang, JavaScript, Node.js, Flask, Django, FastAPI, React.js, AngularJS, PHP, SQL, HTML/CSS, Bootstrap, jQuery, AJAX

Cloud & DevOps:

AWS (Lambda, EC2, RDS, S3, CloudFormation, CDK), Terraform, Jenkins, Kubernetes, Docker, Git, GitHub, GitLab, Boto3, OCI

Databases & Tools:

PostgreSQL, MySQL, MongoDB, SQLite, Snowflake, Redis, Cassandra, Oracle, AWS Glue, Redshift

Other Tools & Platforms:

Kafka, Event Bridge, Ansible, Tableau, Power BI, JIRA, qTest, Allure Reports, Apache, NGINX, WebSphere, WebLogic

Soft Skills:

Problem-solving • Agile collaboration • Project ownership • Cross-functional communication • Code review mentoring • Time and resource management