**Yesho Reddipalli**

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**Python Developer**

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**Professional Summary**

* Python Developer with 7+ years of experience in designing, implementing, and maintaining complex applications and systems.
* Expertise in building scalable microservices and API-driven architectures to support high-volume and real-time data processing.
* Extensive experience with cloud computing technologies, particularly AWS (EC2, Lambda, S3, DynamoDB, Redshift), creating highly available, cost-effective solutions.
* Proficient in data engineering and developing ETL pipelines using tools like AWS Glue, Apache Airflow, and PySpark for seamless data transformation.
* Skilled in integrating streaming data platforms, implementing Apache Kafka for real-time data ingestion and event-driven architectures.
* Strong background in designing secure, high-performance backend services using Django, Flask, and FastAPI.
* Expertise in serverless architectures with AWS Lambda, automating workflows, and reducing operational overhead.
* Proficient in using Boto3 to interact with AWS resources programmatically, automating processes, and reducing manual intervention.
* Experienced in creating CI/CD pipelines with Jenkins, GitHub Actions, and GitLab, ensuring automated, streamlined deployments.
* Hands-on experience with containerization and orchestration technologies like Docker and Kubernetes for consistent development and production environments.
* In-depth knowledge of AWS CloudFormation to manage infrastructure as code, enabling automated and repeatable deployments.
* Expertise in database management and optimization, working with MySQL, MS SQL, DynamoDB, and Amazon Redshift.
* Strong focus on data quality and analytics, using AWS Glue and Amazon Redshift for reliable reporting and data warehousing solutions.
* Well-versed in agile development practices, using Jira and Scrum methodologies to foster collaboration and efficient project delivery.
* Excellent problem-solving abilities, demonstrated in optimizing Python scripts, conducting code reviews, and delivering solutions aligned with business goals.

**Professional Experience**

**Python Developer**

**Medtronic, Minneapolis, MN Jun 2023 to Present**

**Responsibilities:**

* Designed and implemented ETL pipelines with AWS Glue to transform large datasets for analytics and reporting.
* Developed Python-based microservices for real-time data processing, enabling efficient communication between medical devices and applications.
* Integrated Apache Kafka for stream processing to handle high-throughput event-driven data pipelines.
* Automated serverless workflows using AWS Lambda, allowing real-time processing of medical device telemetry.
* Used Boto3 to interact with AWS services such as S3 for secure file storage and DynamoDB for dynamic database operations.
* Developed RESTful APIs to expose data for frontend applications, ensuring smooth integration with other systems.
* Implemented role-based access control (RBAC) and secure authentication mechanisms to comply with HIPAA regulations.
* Utilized Docker and Kubernetes for containerization and orchestration, ensuring seamless deployments across environments.
* Improved system performance by optimizing Python scripts and refactoring legacy code for better maintainability.
* Built real-time monitoring dashboards using AWS CloudWatch and custom Python scripts, ensuring system reliability.
* Enhanced data quality checks in ETL processes using Python, minimizing errors in downstream analytics pipelines.
* Collaborated with cross-functional teams to ensure timely delivery of features and improvements in the medical data ecosystem.
* Integrated Terraform for infrastructure as code and used Prometheus for system monitoring and alerting.
* Improved API response times by introducing Redis caching, reducing latency for real-time medical data retrieval.
* Implemented a custom data ingestion pipeline using AWS Kinesis and Lambda to capture medical device data streams and process them in near real-time.
* Developed an automated system for billing and compliance data verification using Python, reducing human errors and ensuring faster processing times.

**Environment:** Python, Django, EC2, Lambda, S3, DynamoDB, CloudWatch, Glue, Apache Kafka, Docker, Kubernetes, Prometheus, Terraform, Boto3, Git, Jira, Redis

**Python Developer**

**Adtalem Global Education, Chicago, IL Dec 2021 to May 2023**

**Responsibilities:**

* Developed RESTful APIs with Flask to streamline access to educational data for administrators and students.
* Created robust ETL pipelines to extract, clean, and transform data from multiple LMS platforms into a centralized data warehouse.
* Implemented Kafka to handle real-time messaging and event-driven data synchronization between microservices.
* Automated data processing workflows with AWS Lambda and scheduled event triggers, reducing manual intervention.
* Leveraged Boto3 for seamless interaction with AWS services like S3, EC2, and DynamoDB for data storage and processing.
* Improved database query performance with advanced SQL techniques and Python-based ORM tools like SQLAlchemy.
* Built CI/CD pipelines with Jenkins and GitHub Actions, ensuring automated testing and streamlined deployments.
* Enhanced user experience by integrating backend APIs with React-based frontend applications.
* Designed scalable cloud solutions using AWS to support a rapidly growing user base.
* Monitored system logs and errors using AWS CloudWatch and Elasticsearch, improving reliability and uptime.
* Migrated legacy monolithic systems to a modular microservices architecture, enabling scalability and maintainability.
* Conducted peer code reviews and implemented best practices for Python development across the team.
* Implemented data encryption strategies using AWS KMS and Python to comply with data privacy standards, ensuring secure data transmission across services.

**Environment**: Python, Django, Amazon Web Services, AWS Lambda, DynamoDB, AWS Glue, Apache Kafka, Docker, Kubernetes, CloudFormation, PyCharm, Jenkins, GIT, Jira, Agile, Windows

**Python Developer**

**Arvest Bank,** **Lowell, AR Dec 2019 to Oct 2021**

**Responsibilities:**

* Engineered secure Python-based backend services for processing high-volume banking transactions.
* Developed and orchestrated ETL pipelines with Apache Airflow, enabling efficient scheduling and monitoring of data workflows.
* Utilized Apache Kafka to build a fault-tolerant real-time data streaming platform for transaction alerts and fraud detection.
* Automated financial data ingestion workflows using AWS Step Functions and Batch, reducing manual intervention.
* Designed scalable APIs using Flask and FastAPI to integrate with third-party financial services and applications.
* Leveraged Boto3 to interact with AWS resources, automating operations like storage, backups, and key management.
* Implemented ElasticSearch for log aggregation and searching, significantly improving system monitoring and debugging.
* Created a pipeline for real-time customer feedback analysis using Python and AWS Comprehend for sentiment analysis.
* Built CI/CD pipelines with GitLab and Terraform, enabling seamless infrastructure provisioning and application deployment.
* Enhanced application security by implementing AWS KMS for data encryption and IAM for fine-grained access control.
* Automated test suites using PyTest and integrated them into the CI/CD pipeline to maintain code quality.
* Led team-wide workshops on modern Python development practices, promoting better coding standards and efficiency.
* Optimized transaction data processing by leveraging AWS SQS to manage data queues, improving throughput and reducing latency.
* Introduced dynamic scaling with AWS Auto Scaling and Lambda to efficiently handle transaction peaks during high-demand periods.

**Environment:** Python, Flask, FastAPI, AWS Step Functions, Batch, S3, DynamoDB, KMS, Apache Kafka, Boto3, ElasticSearch, PyTest, GitLab, Terraform, Jira, Agile, Windows

**Python Developer**

**Lister Technologies, Chennai, India Oct 2017 to Nov 2019**

**Responsibilities:**

* Designed and developed enterprise-grade applications using Python and Java, focusing on reliability and scalability.
* Built ETL pipelines to streamline data ingestion and transformation processes for business intelligence systems.
* Integrated Apache Kafka for real-time data streaming and asynchronous communication between services.
* Deployed and managed web applications on Apache Tomcat, ensuring stable performance in production environments.
* Implemented RESTful APIs using Flask and Java Spring Boot for seamless data integration between systems.
* Used Maven for managing project dependencies and automating build workflows.
* Created reusable Python modules for data processing, improving code maintainability and reducing redundancy.
* Collaborated with front-end teams to develop dynamic web applications using JavaScript and HTML5.
* Optimized SQL queries and performed database normalization to enhance application performance.
* Implemented automated unit testing using PyUnit and JUnit to ensure code reliability.
* Participated in code reviews and pair programming to maintain high-quality code standards.
* Migrated legacy Java applications to modern frameworks, enhancing maintainability and performance.
* Refined legacy data processing pipelines by implementing PySpark for distributed data transformations, significantly reducing processing time.
* Designed and implemented a fault-tolerant system using Kafka and Python for seamless message processing across multiple services.

**Environment:** Python, Java, Flask, Java Spring Boot, Apache Kafka, Apache Tomcat, Maven, JUnit, PyUnit, SQL, PyCharm, GIT, Jira, Agile, Windows

**Technical Skills**

Languages: Python 3.x/2.7, Java, SQL, JavaScript  
Python Libraries: NumPy, Pandas, Matplotlib, SciPy, PySpark, Boto3  
Python Frameworks: Django, Flask, FastAPI  
Web Technologies: XML, HTML5, CSS3, JavaScript, JQuery, Bootstrap, Angular 13, TypeScript, RESTful APIs, AJAX  
Web Services: SOAP, REST  
Build & Deployment Tools: Maven, Jenkins, Terraform  
Streaming & Messaging Platforms: Apache Kafka  
Databases: PostgreSQL, MySQL, DynamoDB, Amazon Redshift  
Cloud Technologies: AWS (EC2, S3, Lambda, Redshift, CloudFormation, EMR), Azure  
ETL & Data Processing Tools: Apache Airflow, PySpark  
Version Control & Collaboration Tools: GIT, Jira, GitLab  
Testing Tools: PyUnit, PyTest, JUnit  
IDEs: PyCharm, PyDev, Spyder, VSCode  
Methodologies: Agile, Scrum  
Operating Systems: Windows, UNIX, Linux