Jayati Patel

Software Engineer and AWS Certified Solutions Architect
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Professional Summary

Organized and self-motivated software engineer with 6+ years of combined internship and professional experience, along with AWS Solution Architect Associate certification. Proficient in Java, C++, SQL, Python, JavaScript, and CSS programming languages. Possesses practical working knowledge of relational databases, cloud development, and Agile methodologies. Continuously enhances personal and professional technical skills through complementary collegiate courses and online bootcamps. A reliable and responsible team player.

Skills and Strengths

Certifications	AWS Solutions Architect Associate
Programming Languages	Java, C++, C, Python, C, HTML, CSS, SQL, JavaScript, TypeScript
Tools and Frameworks	AWS Services, micro-services, Django, XML, Terraform, Angular, Agile Methodology, Linux, OS Kernel, Operating Systems, Spring, GitHub, CI/CD, Jenkins, Docker, Kafka, Figma, React, unit testing, Kubernetes, NoSQL, MongoDB, TCP/IP, REST

Experience

Developer, Etech Global IT Solutions LLC (Remote, WA)
Feb' 25 – Present

- Developed and maintained core backend modules in Java and Spring, automating laboratory workflows—such as work plan orchestration, clinical analyzer result import, and complex pathology/cytology pipelines—reducing manual processing time by 35% and cutting error rates by 20%.
- Engineered interactive, responsive React components for the client's dashboard, slashing average UI load time from 1.2 s to 0.6 s (a 50% improvement).
- Proposed Terraform infrastructure-as-code modules to automate provisioning of AWS resources, reducing environment setup time and ensuring consistent, repeatable deployments across **23** laboratory sites.

Software Engineer, Causify (Fintech), Remote (Seattle, WA)
Jul' 24 – Dec' 24

- Engineered Python scripts to automate data preprocessing, model training, and logging with robust error handling for reliable cryptocurrency trading analysis across large-scale datasets using PySpark and Amazon S3.
- Designed and prototyped an optimized machine learning model architecture in Python using TensorFlow for cryptocurrency portfolio management, achieving a projected 2-3% accuracy boost while leveraging AWS SageMaker for scalable model training.
- Developed and optimized PySpark-based ETL pipelines for handling large-scale financial data, ensuring efficient data transformation and feature engineering for predictive modeling.
- Integrated AWS Lambda and AWS Step Functions to automate the execution of DAG-based workflows, optimizing the end-to-end data pipeline for cryptocurrency analysis.
- Scripted custom Python features for the repository's code linter, enabling automatic code corrections when the linter is run, significantly improving code quality and consistency across projects.
- Deployed machine learning models on AWS EC2 instances with auto-scaling capabilities, ensuring efficient and cost-effective model inference for real-time cryptocurrency predictions.

Software Engineer, Outset Medical, Inc., Remote (Seattle, WA)
Mar' 23 – Jun' 24

- Developed Backend and Frontend medium to large scale features with RESTful Framework within Outset's two most critical services: Tablohub and Tablodash.
- Received recognition for my exceptional effort in creating a Single Sign-On (SSO) configuration feature, employing JAVA and Angular to enhance the login functionality for over 6000+ weekly patients & clients.

- Proposed and implemented algorithms in Java back-end code to enhance user access management, enabling faster data loading of 16,000+ users with different roles by implementing some materialized views and views in SQL for Postgres database.
- Collaborated with cross functional teams like DevOps to reduce the processing time of dialysis cycles by leveraging Kafka and AWS Lambda, thereby eliminating few services and halving the overall cost of the cycle processing.
- Enhanced the deployment process by integrating comprehensive test coverage and optimizing the build pipeline(CI/CD) for microservices in Jenkins, resulting in increased reliability and efficiency.
- Developed and maintained internal tooling scripts using Clojure to streamline data transformations, minimize manual intervention, and enhance system efficiency for a critical low-level microservice of the Tablo device.
- Improved Service Reports, Treatment Reports, and Disinfect Reports dashboards by introducing options for CSV and PDF downloads, and expanding filter choices, all accomplished by using Spring Dependency Injection and introducing concepts of materialized views.
- Enhanced the monitoring and alerting system for each microservice utilized by Tablohub and Tablodash by seamlessly integrating AWS CloudWatch logs into our codebase through AWS SDK.

Software Development Engineer, Amazon - Marketplace Fulfillment Network (Bellevue, WA)
Jul' 22 – Mar' 23

- Engineered RESTful APIs and microservices-based mobile backends using Java 11 and Spring Boot, delivering key features for Amazon's third-party seller-facing services and integrating with critical systems to ensure scalability and reliability.
- Designed and implemented efficient data models, optimized for high availability and performance, utilizing NoSQL technologies like DynamoDB to manage and store large volumes of unstructured data.
- Developed and deployed features in Apollo, Amazon's internal deployment pipeline, while enhancing Rigel for adjusting order data purge dates and extending the Fulfillment Expiration workflow within the Recreate Shipment process.
- Collaborated cross-functionally with QA teams by performing thorough testing in Dev and UAT environments using JUnit, addressing defects and improving application stability through comprehensive testing and debugging.
- Played an integral role in resolving high-severity incidents, including a critical severity-1 issue affecting 600K orders, by quickly identifying the root cause and collaborating with cross-functional teams to mitigate customer impact.
- Participated in the full development lifecycle from requirement gathering, design, and planning to testing and deployment, utilizing Maven, Amazon's internal dev tools for building, testing, and deploying applications in a cloud-native environment.

Web Developer, System Level Solutions Ltd., Anand, India
Jan' 19 - Jan' 21

- Spearheaded development of web-based EV charging management portal using Java 17 and Angular 12, implementing RESTful microservices architecture, with RabbitMQ for asynchronous messaging and OCPP integration.
- Optimized database operations across Oracle and MySQL platforms, implementing efficient XML parsing solutions using Python with lxml and ElementTree to enhance system performance.
- Built and secured microservices architecture using Spring Boot, Apache Kafka, and RESTful APIs, implementing authentication and access control with Spring Security and OAuth2.
- Automated deployments and optimized CI/CD pipelines using AWS EC2, CodeBuild, CodePipeline, and CodeDeploy.
- Led cross-functional development initiatives in Agile environment, delivering robust web solutions while maintaining code quality through comprehensive testing.
- Developed and tested React components, ensuring seamless frontend-to-backend communication through REST APIs and microservices.
- Implemented UAT and post-implementation support, and wrote unit tests using JUnit and Mockito to ensure application reliability.

Education

Northeastern University, Boston, MA **Jan' 21 - Jun' 22**
Master of Science in Computer Software Engineering

Dhirubhai Ambani Institute of Information and Communication Technology, Gujarat, India **Jul' 16 - Jan' 20**
Bachelor of Technology in Information and Communication Technology