Kaushik Shankar

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Professional Summary

Software Engineer with 4 years of experience in backend and cloud systems. Strong in Golang, Java, and AWS—contributed to 99.95% uptime, event-driven services, and backend APIs. Experience with CI/CD using Jenkins, Docker, and Git.

Experience

Software Engineer, The Cigna Health   August 2024 – Present

- Engineered and deployed scalable cloud applications using **AWS services including Step Functions, Lambda, S3, DynamoDB, and SSM**, and Golang, handling high-volume transaction data and integrating Kafka for real-time event streaming across services.
- Developed robust backend APIs and automated DevOps pipelines using Jenkins and Docker, increasing release frequency while maintaining security and compliance standards.
- Established Git workflows and **CI/CD practices—branch strategies, code review, automated builds**, and deployment pipelines—improving release reliability and team velocity.
- Led cross-functional collaborations—worked with QA, business analysts, and product owners to refine requirements, troubleshoot incidents, and achieve a 99.95% system uptime.
- Standardized OpenAPI documentation and implemented API testing (Postman, custom test suites), raising code quality and facilitating onboarding for new developers.

Research Associate, Arizona State University   October 2022 – May 2024

- Built middleware in **Golang and Java** for real-time data flow and better scalability, with async messaging between services.
- Implemented **RESTful APIs** to integrate backend logic with **ReactJS frontends**, ensuring seamless data flow across web and mobile platforms.
- Managed cloud-native application deployments using **Terraform on AWS**, optimizing infrastructure costs and performance by 20%.
- Streamlined software maintenance via **Jenkins CI/CD**, reducing system downtime by 25% through automated testing and deployment strategies.

Software Engineer, Cognizant   October 2021 – August 2022

- Optimized backend services in **Java and Golang**, leveraging Kafka for increased throughput and availability.
- Automated deployments and monitoring using **AWS, Splunk**, and DevOps tooling.

Projects

Distributed Image Classification

- Developed scalable backend pipelines using Golang, AWS Lambda, and Kafka to process and classify thousands of images in real time, ensuring fast and accurate predictions.
- Integrated monitoring, error handling, and automated deployments, improving system reliability and maintainability for large-scale AI workloads.

Real-Time Data Processing

- Built a robust streaming platform with Kafka, Docker, and AWS for ingesting and transforming live event data from multiple sources, supporting high-throughput workflows.
- Implemented automatic scaling and alerting using Terraform and Splunk, reducing downtime and enabling proactive incident response.

Core Technical Skills & Certification

Languages: Golang, Java, Python, JavaScript (ES6+), SQL, HTML5, CSS3.
Cloud/DevOps: AWS (Lambda, Step Functions, S3, DynamoDB, API Gateway, SageMaker), Docker, Terraform, Jenkins, CI/CD, Git, Splunk.
Backend & Middleware: RESTful APIs, Microservices, Event-Driven Architecture, OpenAPI/Swagger.
Frontend: ReactJS, User Interface (UI) Design, Responsive Web Design.
Databases & Analytics: MySQL, PostgreSQL, MongoDB, TensorFlow, Pandas, NumPy
Certifications: AWS Certified Cloud Practitioner, AWS Certified Developer – Associate, AWS Certified AI Practitioner

Education

Arizona State University – MS in Robotics and Autonomous Systems   May 2024