

Summary:

AWS Certified Software Engineer with 4+ years of experience designing scalable microservices and cloud-native systems. Expert in Java, Go, Python, SQL/NoSQL and AWS infrastructure, with proven impact on system performance and deployment efficiency. Focused on distributed systems and AI-powered backend engineering.

Software Engineer

Pitney Bowes | January 2022 – Present | Pune

- Engineered and deployed an automated, **event-driven** data pipeline utilizing AWS EventBridge and containerized ECS tasks, directly executing Snowflake procedures to guarantee accurate data synchronization in MongoDB Atlas.
- Developed high-performance E-commerce order management system in Golang with complex merge/split logic, integrating **Elasticsearch** for real-time search and filtering.
- Executed a comprehensive **AWS** cost-reduction strategy, directly optimizing observability log pipelines and decommissioning unused resources to unlock up to a 45% reduction in cloud expenditure.
- Developed and implemented **Terraform** scripts to fully automate EC2 provisioning, while directly integrating SAST vulnerability scanning and CrowdStrike threat detection into the CI/CD deployment pipelines.
- Upgraded core microservices from Java 8 to Java 21 by rewriting outdated APIs and fixing tricky code conflicts to make the platform highly secure.

Technical Skills:

- **Languages:** Java, Go (Golang), Python, TypeScript
- **Cloud, DevOps & Infrastructure:** Amazon Web Services (AWS), Docker, Kubernetes, Terraform, CI/CD Pipelines, GitLab CI
- **Architecture & Engineering:** Microservices Architecture, RESTful APIs, Event-Driven/Distributed Systems, Object-Oriented Design (SOLID), System Design Patterns
- **Databases & Search:** MongoDB (NoSQL), MySQL (Relational), Redis, Elasticsearch, Vector Databases (VectorDB)
- **Frameworks & Integration:** Spring Boot, Angular, Gradio, SnapLogic, Snowflake
- **Generative AI & LLM Engineering:** Agentic AI Workflows, CrewAI, LangGraph, AutoGen, Retrieval-Augmented Generation (RAG), Model Context Protocol (MCP)

Education:

- B.E. Computer Science & Engineering (DY PATIL University, Pune) CGPA: 9.2. (2018-2022)

Projects:

Dynamic PDF Generation System

- Built serverless HTML-to-PDF conversion tool using JavaScript and rich text editor, deployed on AWS S3 with CloudFront CDN, Route 53, and SSL encryption. (<https://pdf.ctclab.in>)

Fintrack (Personal Financial Tracker):

- Developed a full-stack personal finance tracker in Go & Firebase with automated PDF bank statement parsing. Implemented smart tagging using pattern-matching algorithms, optimized data structures for transaction lookup and filtering, and generated dynamic summaries and reports.

AI Powered Stock Ticker Analysis System:

- Built a multi-agent AI system using **LangGraph** with graph based orchestration, conditional routing, and agent workflows.
- Designed scalable workflows using nodes, edges, state management, and parallel agent execution.
- Integrated **RAG** for better context and real time news sentiment analysis for market intelligence and stock insight generation. (<https://github.com/awsaman-ai/stock-ticker>)

Certifications & Awards:

- AWS Certified Solutions Architect – Associate
- Python Entry level Certification
- 2x Ace Award, Star Award, 3x Thumbs Up Award (Pitney Bowes)
