

MANAS PANDEY

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PROFESSIONAL SUMMARY

Full Stack Developer with 5+ years of experience building event-driven, cloud-native applications on AWS and the JVM. At Delta Airlines, designing Kafka event pipelines, real-time baggage-tracking systems and an AI root-cause agent with Java (Quarkus), AppSync, Kinesis and Angular. Proven at shipping resilient, multi-region services in the airline, automotive and financial domains.

SKILLS

Languages: Java, TypeScript, JavaScript, C#, SQL, Bash, PowerShell

AWS & Cloud: MSK (Kafka), Lambda, Kinesis, AppSync (GraphQL), API Gateway, DynamoDB, CloudWatch, Route 53, multi-region failover

Back-End: Quarkus, Spring Boot, Microservices, REST APIs, Event-Driven Architecture, Node.js, ASP.NET

Front-End: Angular (up to v19), React, HTML5, Tailwind CSS, Bootstrap

Data: DynamoDB, SQL Server, MongoDB, MySQL, Stored Procedures

AI & Agents: Model Context Protocol (MCP) servers, LLM tool-calling / agentic workflows, CloudWatch Logs Insights, root-cause automation

DevOps & Tools: Docker, Kubernetes, CI/CD Pipelines, Git, Octopus Deploy, SonarQube, Postman, SSIS

PROFESSIONAL EXPERIENCE

DELTA AIRLINES, Bangalore, India

Full Stack Developer | Sep 2024 – Present

- Implemented an event-driven workflow on **AWS MSK (Kafka)** with **Java Quarkus**, consuming Bag, Flight and Passenger (Pax) events, applying business rules and persisting results for downstream operations processing.
- Built **Baggage Manager**, a real-time application that integrates **AWS AppSync** with **Kinesis** streaming to display all bags at a station alongside live flight-status updates.
- Engineered **multi-region failover** for AppSync and API Gateway between us-east-1 and us-west-2 (and back), keeping baggage services available during regional outages.
- Developed the Baggage Manager UI in **Angular 19** with AppSync GraphQL subscriptions for live data; monitored and tuned services with CloudWatch, Lambda and DynamoDB.

DEALERSOCKET (A SOLERA HOLDINGS COMPANY), Bangalore, India

Full Stack Developer | Aug 2022 – Sep 2024

- Engineered a **Spring Boot** integration for Toyota enabling dynamic UI and service interaction.
- Built the 'Store Closed Days' **Angular** grid with Java CRUD controllers, letting sales teams manage dealership closures without engineering support.
- Developed a desking component of the salesperson dashboard in **React + TypeScript** on a Spring Boot backend using concurrency techniques for responsive pricing calculations.
- Awarded **Star of the Month** twice (May and Sep 2023) for performance and innovation in project delivery.

WIPRO, Bangalore, India

Full Stack Developer | Jul 2021 – Aug 2022

- Enhanced a financial platform with **Angular, TypeScript and Spring Boot**: built dynamic UI components for real-time data services and wrote MongoDB stored procedures and functions to client specification.

PROJECTS

bag-triage-mcp – AI Root-Cause Agent for Baggage Operations | Delta Airlines

Java Quarkus | Model Context Protocol (MCP) | LLM tool-calling | CloudWatch Logs Insights | AWS

- Designed and built an **MCP server** that turns baggage troubleshooting into a conversation: an engineer supplies a bag tag or BagUniqueid, asks "what happened?", and gets a plain-language explanation of the bag's journey instead of digging through raw logs.
- Exposed a set of **agent tools** that run **CloudWatch Logs Insights** queries over the event timeline around the bag, reconstruct its full persistence history across services, and surface exactly where a reroute or lookup went wrong.
- Extended the same tooling to **Pax and Flight events**, giving the team one chat interface for cross-domain root-cause analysis across the entire baggage, passenger and flight event pipeline.
- Cut incident triage from manual multi-service log hunting to a single prompt, making the agent the first stop for support, on-call and QA when investigating production issues.

Disease Prediction System – Neural Network + Fuzzy Logic web app predicting diseases from symptoms; Bootstrap/jQuery front end on a MySQL database.

EDUCATION

Vellore Institute of Technology (VIT), Vellore, India | B.Tech in Information Technology | Jul 2017 – May 2021