Manikumar Honnenahalli Lakshminarayana Swamy

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EDUCATION

University of Florida May 2025
Master of Science in Computer Science **GPA – 3.96/4.0**

REVA University August 2019
Bachelor of Technology in Electronics & Telecommunication **GPA – 3.7/4.0**

Relevant coursework: Data Structures & Algorithms, Database Management Systems, Object Oriented Programming, Distributed Systems, Software Engineering, Data Engineering, Computer Networks.

TECHNICAL SKILLS

Languages and Frameworks: Java, Python, JavaScript, NodeJS, Typescript, Spring Boot, Flask, Angular, React.
DevOps, CI-CD & Cloud Platforms: Docker, Kubernetes, OpenShift, Jenkins, Maven, GIT, AWS, Azure, Bash.
Databases: Microsoft SQL server, Oracle Database, PostgreSQL, MongoDB, MySQL.
Tools and Technologies: HTML, CSS, Microservices, REST API, Apache Kafka, Linux, Apache Spark, JMeter, Junit, Apache ActiveMQ, SonarQube, Grafana, Splunk, JFrog, Hadoop, Coverity**.**

PROFESSIONAL EXPERIENCE

United Parcel Service (UPS) **Parsippany, New Jersey**
Software Engineer Intern/Co-op *June 2024–January 2025*

- Boosted system throughput by 35% via real-time event streaming using **Kafka, Java, and Spring Boot**, processing 10M+ daily pickups messages with optimized data partitioning.
- Developed **algorithm** grouping pickups by location, time window, type, and hazmat, cutting dispatches by 35% and fuel costs while ensuring safety/regulatory compliance.
- Developed a high-throughput **Spring Batch** service to process 1M+ pickup cancellations, leveraging **thread pool** partitioning with dynamic chunk sizing (2,000 records/thread) to reduce batch runtime by 50%.
- Automated testing for microservices using **JUnit/Mockito**, achieving 95% test coverage and reducing regression defects in production by 30%.

Boeing **Bangalore, India**
Java Full-stack Developer *May 2022–August 2023*

- Developed and maintained Boeing's **MyBoeingFleet** application using **Java, Spring Boot, Oracle Database, and Angular**, optimizing real-time aircraft data access and enhancing fleet management efficiency.
- Integrated **Singleton, Factory, and Builder design patterns** to enhance code reusability, reduce redundancy by 40%, and streamline complex object creation, ensuring scalable and maintainable solutions across applications.
- Designed and implemented **microservices**-based systems using the **Saga pattern** for cross-service transaction management and **API Gateway** to centralize service access, route requests, and enforce security policies.
- Accelerated **CI/CD** pipelines by integrating **Jenkins** for automated build/deploy workflows, containerizing services with **Docker/OpenShift (Kubernetes),** and orchestrating deployments, reducing deployment time by 50%.
- Improved system scalability by 30% and reduced costs through event-driven **AWS architecture (Lambda, S3),** automating ingestion/processing of 500K+ daily user behavior events from **MyBoeingFleet** app.

Cognizant **Pune, India**
Associate Software Engineer *October 2019–May 2022*

- Intercepted over 150,000 packages daily, leveraging **Kafka** to send millions of real-time instructions that optimized routing and delivery adjustments, significantly enhancing operational accuracy and responsiveness.
- Implemented secure **RESTful APIs** using **OAuth2, Spring Security, and JWT-based authentication**, ensuring enterprise-grade compliance for 30+ internal/external clients while reducing unauthorized access attempts by 40%.
- Optimized batch processing times by 30% through **multi-threading** and **Microsoft SQL server** enhancements **(indexing, stored procedures),** achieving faster data handling during peak delivery periods.
- Automated real-time logistics reporting by building an **Angular** dashboard, reducing manual effort by 50% via integration with **Splunk APIs**.

PROJECTS

LeetCode Forge (Project Link) | *Java, Spring Boot, Kafka, PostgreSQL, Docker, React*

- Developed an online code judge from scratch, executing user-submitted code in sandboxed Docker containers with enforced memory and time constraints, automatically evaluating submissions against predefined test cases.
- Collected program exit codes, standard output, and error messages to deliver accurate execution feedback to users.

Peer-to-Peer File Sharing System (Project Link) | *Java, OOP, Distributed Systems, Makefile*

- Created a P2P file sharing software in Java, similar to BitTorrent, implementing the choking-unchoking mechanism for efficient file distribution. Used TCP for peer-to-peer communication and custom protocols for file piece exchange.