

Manikumar Honnenahalli Lakshminarayana Swamy

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EDUCATION

University of Florida

Master of Science in Computer Science

Relevant Coursework: Advanced Data structures, Algorithms, Distributed Systems, Natural Language Processing

August 2023 - May 2025

GPA – 3.96/4.0

REVA University

Bachelor of Technology in Electronics & Telecommunication

August 2015 - August 2019

GPA – 3.7/4.0

PROFESSIONAL EXPERIENCE

United Parcel Service

Software Engineering Intern/co-op

Parsippany, New Jersey

June 2024–Present

- Improved system throughput by 35% by implementing real-time event streaming using **Kafka**, processing **1M+ messages daily** with optimized data partitioning.
- Reduced delivery costs by 25% by designing an adaptive **package clustering algorithm** that considers clusters, windows, and categories.
- Designed and developed an **ETL** process to extract, transform, and load center and building information from external sources using **SQL Server Integration Services**.
- Enhanced peak performance by 20% through load-testing simulations with **JMeter**, adjusting Kafka consumers for high traffic demands.
- Strengthened scalability by implementing **Spring Batch's job** partitioning and chunk-oriented processing, efficiently handling high data volumes with increased fault tolerance.

Boeing

Java Full-stack Developer

Bangalore, India

May 2022–August 2023

- Reduced application load times by 35% for “**MyBoeingFleet**” web application by developing and maintaining it with **Java, Spring boot, Angular, Typescript, NodeJS, and Azure**.
- Spearheaded the migration of a **monolithic system to microservices architecture**, achieving zero downtime and enhancing deployment speed by 50%.
- Migrated services from **Tomcat servers to Kubernetes**, reducing deployment time by 50%, which enabled faster releases and enhanced system agility.
- Achieved 30% cost savings by developing a serverless architecture with **Azure Functions** for automated business processes, scaling efficiently for event-triggered workloads.
- Enhanced database performance by optimizing **SQL server queries**, accelerating data retrieval for large-scale datasets.
- Integrated **Elasticsearch** to handle full-text search capabilities, enhancing the efficiency of searching through high volumes of data.

Cognizant

Associate Software Engineer

Pune, India

October 2019–May 2022

- Consulted for United Parcel Service, enhancing the Order Management System using **Java, Angular, Spring Boot, SQL Server, OpenShift, and Apache ActiveMQ**, leading to improved system performance and scalability.
- Intercepted over **150,000 packages** daily, sending **millions of real-time** instructions to optimize routing and ensure efficient delivery adjustments, significantly boosting operational accuracy and responsiveness.
- Developed a secure API gateway using **IBM API Connect**, incorporating rate limiting and **JWT-based authentication**, which improved API security and reduced unauthorized access by 40%.
- Optimized batch processing times by 30% by implementing **multi-threading** and improving **database indexing**, resulting in faster data handling during peak delivery periods.
- Implemented **server-side load balancing** to manage high traffic during peak delivery seasons, ensuring optimal system performance and high availability.

ACHIEVEMENTS AND LEADERSHIP ROLES

- Automated Savings** (January 2022): Developed a **package pickup time automation tool** for UPS, resulting in **\$800K** savings within three months and ongoing cost reductions.
- Peak Utility Dashboard** (February 2021): Designed an **API-based dashboard**, reducing manual work hours and earning the ‘Doing the Right Thing, the Right Way’ award.
- Cognizant, Interim Lead** (November - December 2021): Led a team during the lead’s absence, managing client interactions and product deployments effectively.

TECHNICAL SKILLS

Languages and Frameworks: Java, Python, Go, JavaScript, Typescript, C++, Spring boot, Angular, React.

DevOps, CI-CD & Cloud Platforms: Docker, Kubernetes, OpenShift, Jenkins, Maven, GIT, Azure, CI/CD, Bash.

Tools and Technologies: HTML, CSS, Typescript, Microsoft SQL Server, Mango DB, Microservices, REST API, Kafka, Linux, Postman, JMeter, Oracle Database, Apache ActiveMQ, Junit, Mockito, Grafana, Prometheus, AWS.