Manikumar Honnenahalli Lakshminarayana Swamy

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TECHNICAL SKILLS

Languages and Frameworks: Java, Python, Go, JavaScript, Express JS, 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, Junit, Apache ActiveMQ, SonarQube, Grafana, Redis, Hadoop, Apache Spark.

PROFESSIONAL EXPERIENCE

United Parcel Service   **Parsippany, New Jersey**
Software Engineering Intern/co-op   *June 2024–Present*

- Implemented real-time pickup event streaming with **Kafka** and **Spring Boot,** processing over **1 million messages** daily using parallel processing and data partitioning strategies, improving overall system throughput by 35%
- Engineered a flexible **package clustering algorithm** that dynamically considers address clusters, time windows, and pickup categories, enhancing route optimization and reducing **delivery costs by 25%**
- Implemented **JMeter scripts** for load testing Kafka consumers, simulating high-traffic conditions and optimizing resource allocation for peak demand
- Applied **Spring Batch's** job partitioning and chunk-oriented processing to handle high volumes of data with improved scalability and fault tolerance
- Designed and developed an **ETL** process to extract, transform, and load center and building information from external sources using **SQL Server Integration Services**

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

- Programmed and maintained a robust web-application, "**MyBoeingFleet**", employing **Java**, Spring boot, **Angular**, Azure, Express JS, **Kubernetes**, **Splunk**, and Oracle database resulting in **35% reduction** in application load times
- Spearheaded the decomposition of **monolithic services into microservices**, migrating critical functionalities while maintaining **zero downtime** during transition periods
- Implemented real-time monitoring with **Splunk and Prometheus**, enabling proactive issue resolution and reducing troubleshooting time. This improved overall system uptime and enhanced visibility into application performance.
- Introduced **circuit breaker patterns** and service **retries** into the microservices architecture, ensuring resiliency against external API failures
- Migrated services from **Tomcat servers** to **Kubernetes**, realizing a **50%** timesaving in application deployment, resulting in expedited releases and heightened system agility
- Created **serverless** architecture by developing and deploying **Azure functions** to automate business processes, resulting in a **20% reduction** in **infrastructure costs** and improved scalability for event-triggered workloads

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

- Worked as a consultant for United Parcel Service and advanced the **Order Management System** application using **Java**, **Angular**, Spring Boot, **SQL Server**, **OpenShift**, and Apache ActiveMQ technologies
- Handled and processed **intercepts** for over **100,000 packages per day**, providing real-time instructions for over a **million routing actions**, significantly enhancing operational efficiency
- Engineered a flexible package clustering algorithm that dynamically considers address clusters, time windows, and pickup categories, enhancing route optimization and reducing delivery costs by 25%
- Designed and deployed a robust **JWT-based security** solution for external client authentication, significantly reducing unauthorized access attempts and enhancing system security
- Implemented **multi-threading** and optimized **database indexing** techniques to reduce batch processing time by **30%** during peak delivery periods

PROJECTS

- Developed a distributed k-mer algorithm using **Hadoop and MapReduce** to detect tandem repeats in genomic sequences, leveraging **Docker** for containerized Hadoop environments to enhance scalability and portability
- Developed a **Semantic Role Labeling** system using **BERT** to predict actor-action pairs from news articles, integrating advanced NLP techniques like **spaCy** for NER, **Dependency Parsing**, and **Coreference Resolution**
- Created a P2P file-sharing software in Java, implementing the choking-unchoking mechanism for efficient file distribution using TCP and custom protocols

EDUCATION

University of Florida   **May 2025**
Master of Science in Computer Science   **GPA – 3.96/4.0**
Relevant Coursework: Advanced Data structures, Analysis of Algorithms, Distributed Systems, Natural Language Processing

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