

# SAICHARAN KOTEKAL

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## EDUCATION

Florida State University – *Master of Science in Information Technology*, GPA – 3.97 /4

August 2023 – May 2025

Vellore Institute of Technology – *Bachelor of Technology*, GPA – 3.96/4

July 2018 – May 2022

## TECHNICAL SKILLS

**Programming Languages:** C, C++, Java, Python, JavaScript, TypeScript, SQL, Go

**Frontend Development:** Angular, React, HTML5, CSS3, Bootstrap

**Backend Development:** Spring, Spring Boot, Microservices, REST APIs/ RESTful APIs, GraphQL, Hibernate

**Tools and Platforms:** Docker, Kubernetes, OpenShift, Helm, ArgoCD, Ingress, Kafka, RabbitMQ, Jenkins, SonarQube, GitLab, CI/CD, Git, JUnit, Mockito, Postman, Maven, Swagger/OpenAPI, Apache JMeter, Terraform, Grafana, Jira

**Cloud Services:** Eureka, AWS (EKS, EC2, RDS, API Gateway, DynamoDB, CloudWatch, Load Balancer), Azure, Mongo Atlas

**Databases:** MySQL, PostgreSQL, MongoDB

## PROFESSIONAL EXPERIENCE

Florida State University

Tallahassee, USA

Software Engineer (RA)

January 2024 – Present

- **Led a cross-functional team** to design and implement a scalable, high-performance **web scraping** system using **Spring Boot**, **Java**, **Selenium**, and **Docker**, collecting and storing over 20,000 job ads, improving data collection efficiency by 30%.
- **Created Data Access Objects(DAOs)** utilizing **JPA & Hibernate**, leveraging ORM capabilities to manage database data effectively and incorporating **JUnit** using **Mockito** for comprehensive testing, improving code reliability by 35%.
- **Developed** and deployed **10+ RESTful APIs** with Spring Boot and **integrated Swagger** for **API documentation & UI**, enabling the department to filter, search seamlessly, and access job information, resulting in a 40% reduction in manual data processing.
- **Leveraged Docker** for **containerization**, ensuring seamless deployment and scalability of **4+ microservices**.
- **Integrated Kafka** for real-time, **event-driven data processing**, enabling asynchronous job ad notifications and scalable handling messages. Utilized **Spring Cloud Stream** to reduce data latency by 25% and enhance system responsiveness.

Accenture

Chennai, India

Software Engineer

August 2022 – August 2023

- **Utilized Agile** methodology and actively engaged in **Scrum** meetings to deliver high-quality results within a specified timeline.
- **Spearheaded the migration** of a **monolithic system to microservices** for **Bank of America**, developing **15+ RESTful microservices** with **Spring Boot**, **Docker**, and **AWS**, improving deployment speed by 50% & reducing operational cost by 20%.
- **Architected and orchestrated** a highly available **microservices** infrastructure using **Docker and Kubernetes**, on **AWS EKS** achieving 30% cost savings & 99% uptime, while managing critical banking applications serving 100K+ transactions per minute.
- Engineered **Event-Driven** financial processing system using **Apache Kafka** and Spring Boot, handling 1M+ transactions.
- **Streamlined CI/CD** processes with **Jenkins**, **SonarQube**, and **ArgoCD**, reducing deployment time by 40% and achieving zero-downtime deployments through build, test, and deployment orchestration while leveraging **Kubernetes** for automated scaling.
- Performed **JUnit** testing for **Controllers and Services** using **Mockito**, ensuring RESTful API reliability—leveraged **Test-Driven Development (TDD) principles**, reducing production bugs by 40% and enhancing **QA efficiency** by 35%.
- **Enhanced** user interface (**UI**) functionality through **React**, addressing client feedback to improve responsiveness and the overall banking experience, including personalized insights for accounts, loans, and credit card services.

CodeQuest

Vellore, India

SQL Developer Intern

March 2021– May 2021

- **Reduced** SQL query **execution time** by 25%, **boosting** report generation **speed** by 30%.
- **Automated data extraction** processes, saving 10+ hours weekly and streamlining data management workflows

## PROJECTS

UberEATS Clone

February 2024

- **Implemented a microservices-based** food delivery platform (**5 Spring Boot services**) handling 500+ concurrent users in **load testing** using **Apache JMeter** and containerized with **Docker/Kubernetes** on **AWS EKS** achieving 95% uptime and built responsive **Angular** frontend reducing average page load time to under 3 seconds.

Order and Inventory Management

January 2023

- **Architected** a microservices-based inventory system with **REST APIs and Hibernate**, enabling seamless vendor-based service allocation and data processing, achieving 100% test coverage with **JUnit**.

## ACHIEVEMENTS

- Earned certificates in **Information Architecture** and **Information Leadership** in 2025, from **Florida State University**.
- Secured the 100 Days Badge on **Leetcode** by completing algorithm challenges and **data structure** problems.