SAICHARAN KOTEKAL

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EDUCATION

FLORIDA STATE UNIVERSITY   **Tallahassee, FL**
Master of Science in Information Technology | *CGPA–3.97*   **August 2023 – May 2025**
- **Coursework:** Advanced Data Science, Website Development & Management, Software Engineering, Information Systems Management, Information Organization, Object-Oriented Programming, Usability Analysis, Information architecture

VELLORE INSTITUTE OF TECHNOLOGY   **Vellore, India**
Bachelor of Technology | *CGPA–3.96*   **July 2018 – May 2022**
- Completed 15+ Computer Science courses on Coursera and Udemy from prestigious universities, including Stanford.

TECHNICAL SKILLS

- **Programming Languages**: Java, Python, SQL, JavaScript, TypeScript, C, C++, Go
- **Backend Development**: Spring, Spring Boot, Microservices REST APIs/ RESTful APIs, GraphQL, Node.js, Flask, Kafka, OAuth2
- **Frontend Development**: Angular, React, HTML5, CSS3, JQuery, JSP, Bootstrap
- **Machine Learning & Data Science**: LangChain, TensorFlow, NLP (spaCy, NLTK), Scikit-Learn, Pandas, NumPy, Matplotlib, Keras
- **Tools & Platforms**: Docker, Kubernetes, RabbitMQ, OpenShift, Jenkins, CI/CD, Jira, Git, AWS, Postman, Apache JMeter, Maven
- **Cloud Services**: Eureka, AWS (EKS, EC2, API Gateway, DynamoDB, CloudWatch, Load Balancer), Azure, GCP, Datadog
- **Databases**: MySQL, PostgreSQL, MongoDB

PROFESSIONAL EXPERIENCE

FLORIDA STATE UNIVERSITY   **Tallahassee, FL**
Graduate Research Assistant | *Python, NLP, TensorFlow, PostgreSQL, Web Scraping, Data Analytics*   **July 2024 – Present**
- Designed and implemented a scalable, high-performance web scraping system using **Scrapy, Selenium, and Python,** streamlining data collection and improving accuracy by 25%, supporting critical research initiatives.
- Developing a comprehensive **NLP** pipeline leveraging advanced **spaCy and NLTK** techniques enables **Named Entity Recognition (NER)**, **Topic Modeling**, **Sentiment Analysis**, and Keyword Extraction.
- Built a **TensorFlow-based predictive model** with 85% accuracy, reducing hiring inefficiencies by 30% through advanced data analysis and trend forecasting.
- Coordinated and optimized **cross-functional** data collection strategies, implementing robust data security protocols to ensure full compliance with data privacy standards, leading to a 40% enhancement in research throughput.

ACCENTURE   **Chennai, India**
Software Engineer | *Java, Spring Boot, SQL, MongoDB, React, Kafka, Agile, Microservices, Apache Tomcat*   **August 2022 – August 2023**
- Developed **RESTful scalable microservices**(Accounts, Loans, and Cards) using **Spring-Boot, Docker, and AWS,** optimizing transaction workflows and reducing manual operations by 10%, ensuring regulatory compliance for client **Bank of America.**
- **Architected and orchestrated** a highly available microservices infrastructure using **Docker and Kubernetes**, on **AWS** EKS achieving 99.99% uptime, while managing critical banking applications serving 100K+ daily transactions.
- **Streamlined CI/CD processes** with **Jenkins and ArgoCD**, reducing deployment time by 40% and achieving zero-downtime deployments through efficient build, test, and deployment orchestration while leveraging **Kubernetes** for automated scaling.
- Engineered real-time financial processing system using **Kafka** and Spring Boot, handling 1M+ daily transactions with sub-millisecond latency and implementing custom recommendation algorithms with 99.99% reliability.
- **Performed JUnit test cases** for Controllers and Service Implementation classes to ensure the reliability and functionality of RESTful APIs—leveraged **Test-Driven Development** (TDD) principles, reducing production bugs by 40%.
- **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.

CODE QUEST   **Vellore, India**
SQL Developer Intern | *SQL, Python, Data Extraction, Query Optimization, Performance Tuning*   **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 | Spring Boot, Java, Docker, Kubernetes, AWS EKS, Angular, Jenkins, ArgoCD
- Developed a microservices-based food delivery platform (5 Spring Boot services) handling 500+ concurrent users in load testing. 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 System | *Java, Springboot, Angular, MYSQL, Eureka, Docker*
- 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

- Contributed to a **research paper** in IJARESM on applying **NLP** techniques for trend forecasting in Fake News in **2022.**
- Secured the **100 Days Badge on LeetCode** by completing algorithm challenges and **data structure problems.**
- I earned certificates in **Information Architecture** and **Information Leadership and Management** during my **Master's program in 2025** demonstrating my advanced knowledge and commitment to mastering key areas of management and leadership.