

SAICHARAN KOTEKAL

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EDUCATION

FLORIDA STATE UNIVERSITY

Master of Science in Information Technology / CGPA-3.96

Tallahassee, FL

August 2023 – May 2025

- Coursework: Website Development & Management, Data Analytics, Software Engineering, Information Systems Management, Management Information Organization, Object-Oriented Programming, Usability Analysis

VELLORE INSTITUTE OF TECHNOLOGY

Bachelor of Technology / CGPA-3.96

Vellore, India

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, REST APIs/ RESTFul APIs, Microservices, Node.js, Flask, Kafka, OAuth2, Datadog
- 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, OpenShift, Jenkins, Jira, CI/CD, Git, AWS, Postman, PowerBI, Selenium, Maven
- Cloud Services: Eureka, AWS (EKS, EC2, API Gateway, DynamoDB, CloudWatch, Load Balancer), Azure
- Databases: MySQL, PostgreSQL, MongoDB

PROFESSIONAL EXPERIENCE

FLORIDA STATE UNIVERSITY

Graduate Research Assistant | Python, NLP, TensorFlow, PostgreSQL, Web Scraping, Data Analytics

Tallahassee, FL

July 2024 – Present

- Designed and implemented a **high-performance web scraping system** using Scrapy, Selenium, and Python, achieving a 20% increase in data accuracy and efficiency in data collection.
- Developed an **NLP pipeline** leveraging spaCy and NLTK, enabling **Named Entity Recognition, Topic Modeling, and Sentiment Analysis** for robust data insights.
- Building a **TensorFlow-based predictive model** with 85% accuracy, reducing hiring inefficiencies by 30% through advanced data analysis and trend forecasting.
- Coordinated cross-functional data collection efforts, ensuring compliance with data privacy standards and enhancing research throughput by 40%.

ACCENTURE

Software Engineer | Java, Spring Boot, SQL, MongoDB, React, Kafka, Agile, Microservices

Chennai, India

August 2022 – August 2023

- Contributed to developing and enhancing microservices** (Accounts, Loans, and Cards) for **Bank of America**, optimizing transaction workflows, ensuring regulatory compliance, and reducing manual intervention by 10%.
- Implemented a retry mechanism** for payment tracking and transaction settlement within Dockerized services, reducing operational risk by 15% and minimizing transaction processing time fluctuations by 10%, leveraging AWS services like EKS with Load Balancer.
- Streamlined CI/CD processes** with Jenkins and ArgoCD, reducing deployment time by 40% and enhancing software delivery reliability through efficient build, test, and deployment stage orchestration, while utilizing Kubernetes to automate scaling.
- 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%.
- Optimized custom algorithms** with Spring Expressions for efficient message routing, enabling real-time Kafka-based financial recommendations and enhancing platform stability.
- 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

SQL Developer Intern | SQL, Python, Data Extraction, Query Optimization, Performance Tuning

Vellore, India

March 2021 – May 2021

- Optimized SQL queries, decreasing execution time by 25% and improving reporting efficiency by 30%.
- Automated data extraction scripts, saving 10 hours weekly and streamlining data management tasks.

PROJECTS

Kick Start-up | SpringBoot, MySQL, React JS, HTML, Material UI, Docker, AWS

- Developed a scalable microservices web app for startups, integrating 100+ REST APIs across 30+ services; leveraged Docker on AWS EC2 for containerization and automated testing of 30+ daily commits with Git, improving code consistency.

Inventory Management System | Java, Springboot, Angular, MYSQL

- 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.