

SAICHARAN KOTEKAL

sk23x@fsu.edu • (850) 405-2828 • [LinkedIn](#) • [Portfolio](#) • Tallahassee, FL

EDUCATION

FLORIDA STATE UNIVERSITY

Master of Science in Information Technology / CGPA-3.96

Tallahassee, FL

August 2022 – May 2025

- Coursework: Website Development & Management, Data Analytics, Software Engineering, Information Systems Management, Management Information Organization, Object-Oriented Programming, Computer Science-BioInformatics, 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, Django, Kafka, OAuth2, Datadog
- Frontend Development: React, Angular, HTML5, CSS3, JQuery, JSP, Bootstrap
- Machine Learning & Data Science: TensorFlow, NLP (spaCy, NLTK), Scikit-Learn, Pandas, NumPy, Matplotlib
- Tools & Platforms: Docker, Kubernetes, Jenkins, Git, AWS, Postman, PowerBI, Selenium, Maven, AWS EC2, AWS CloudWatch
- 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.
- Built 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 Engineering(Full-time)

Chennai, India

August 2022 – August 2023

Java Full Stack Developer | Java, Spring Boot, SQL, ReactJS, Kafka, Agile, FIX Protocol, Microservices

- Served as Backend Developer for a systematic trading platform, building microservices (TradeCapture, TradeBooker, TradePersister, Arcesium, TradeEnrichment) to streamline processing, ensure compliance, and cut manual intervention by 10%.
- Engineered a **retry mechanism** for forward-dated trades, cutting operational risk by 15% and processing time by 10%.
- Built and optimized **custom message matching algorithms** with Spring Expressions, enabling efficient FIX message routing to Kafka topics and enhancing platform stability.
- Enhanced user interface functionality through React, addressing client requirements and improving responsiveness and interaction flow.
- Designed and executed a **Java-based migration script**, facilitating seamless data transitions and decreasing system downtime by 20%.
- Implemented **Test-Driven Development (TDD)** principles using JUnit, resulting in a 40% reduction in production bugs and improving code reliability

CODE QUEST Vellore, India

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

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 dynamic data processing, achieving 100% test coverage with JUnit.

ADDITIONAL ACHIEVEMENTS

- Awarded **Best Intern Project** at Code Quest for innovative data extraction techniques, resulting in significant efficiency improvements.
- Recognized as **Top Performer** at Accenture for outstanding contributions to backend optimizations and API development.
- Contributed to an academic paper in IJARESM on the application of NLP techniques for trend forecasting in the Fake News.