

SAICHARAN KOTEKAL

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TECHNICAL SKILLS

- **Programming Languages:** C, C++, Java, JavaScript/ TypeScript, Python, HTML, CSS, SQL, NoSQL, Go
- **Frameworks and Tools:** Spring, Spring Boot, ReactJS, Django, Thymeleaf, Node.js, Angular, Kafka, RESTfulAPI, REST Api, Git, Maven, Docker, Kubernetes, Swagger, Postman, Jenkins, Datadog, IntelliJ, Visual Studio, Selenium, JQuery, JSP, Bootstrap, NumPy, Pandas, Scikit-learn, TensorFlow, GitHub, Excel, PowerBI, Tableau
- **Database:** MySQL, MongoDB, PostgreSQL
- **Other:** Microservices, OOPs concepts, Data Structures Algorithms, Linux kernel, MVC, AWS

PROFESSIONAL EXPERIENCE

FLORIDA STATE UNIVERSITY

Tallahassee, FL

Graduate Research Assistant

July 2024 – Present

Social workers in the library | *Web Scraping, Python, NLP, TensorFlow, PostgreSQL*

- Conducting research and building a high-performance web scraping system using Scrapy, Selenium, and Python, improving data accuracy by 20% through real-time data streaming and robust PostgreSQL storage.
- Applied advanced Natural Language Processing (NLP) techniques, including Named Entity Recognition, Topic Modeling, and Sentiment Analysis, using spaCy and NLTK.
- Creating a TensorFlow-based machine learning model, achieving 85% accuracy in hiring trend predictions and enhancing hiring process efficiency by 30%.

ACCENTURE

Chennai, India

Software Engineering(Full-time)

August 2022 – August 2023

Java Full Stack Developer | *Java, Spring Boot, Agile, FIX Protocol, Kafka, SQL, React*

- Leveraged Agile methodology by conducting weekly Scrum meetings, facilitating communication among team members, and reducing project delivery time by 20%, while maintaining a high standard of quality in deliverables.
- Experience in all phases of the Software Development Life Cycle (SDLC), including Analysis, Design, Development, Testing, and Maintenance.
- Working as a Java Backend Developer for a Systematic trading platform, Creating a platform for supporting different Types of trading instruments like Equity Swaps, CFDS, Equity, Forwards, etc of all exchanges in the world and dealing in all different currencies.
- Engineered a programmatic retry mechanism for forward-dated trades, cutting daily manual interventions; slashed processing time by 10%, and mitigated operational risk by 15%.
- Constructed custom message matching algorithms with Spring Expressions, directing targeted FIX messages to designated Kafka topics, ensuring robust and efficient system performance.
- Skilled in writing test-driven Java code with JUnit and building APIs to enhance user interface interactions.
- Crafted new implementations for existing projects based on client requirements, developing SQL queries to fetch large amounts of data dynamically, and designing various logics to simplify the data retrieval process.
- Designed and implemented a Java-based migration script to facilitate the seamless transfer of essential data from the old party database to the new database. This involved handling the addition and removal of columns per the changes in the new database structure.
- Resolved Numerous bugs and added new Enhancements in the UI using react.

CODE QUEST Vellore, India

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

March 2021 – May 2021

- Extracted and collected data for essential reports, utilizing SQL scripts to ensure efficient data management and accuracy, leading to a 30% improvement in reporting efficiency.
- Created and optimized SQL queries, generating reports documenting database changes and performance metrics, cutting query execution time by 25% and saving 10 hours weekly.

PROJECTS

Social Distance Monitoring | *YOLOv4, DeepSORT, CNN, Computer Vision, Python, OpenCV*

- Oversaw the construction of a real-time social distancing monitoring system using a fine-tuned YOLOv4 for person detection, a centroid tracking algorithm, and DeepSORT techniques with CNN for tracking individual movements, reducing close contact instances by 45% and ensuring compliance with safety protocols.

Inventory Management System | *Java, Springboot, Angular, MYSQL*

- Developed microservices architecture for an inventory management system, where different services are provided based on user-selected vendors. Utilized REST APIs for user interactions, integrated Hibernate for database operations, and implemented JUnit for comprehensive test coverage.

EDUCATION

FLORIDA STATE UNIVERSITY

Tallahassee, FL

Master of Science in Information Technology | *CGPA–3.96*

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

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.