

Sajan Patel

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EXPERIENCE

Frigate Global

Full stack Software Engineer Intern

December 2024 - July 2025

London, UK

- Designed and implemented back-end systems for web and mobile applications, using REST API, Node.js, PostgreSQL, and Spring Boot frameworks.
- Developed interactive front-end features for mobile applications using JavaScript frameworks, ensuring responsive design and seamless user experience.
- Collaborated with cross-functional teams, including UI/UX designers, to align technical solutions with company goals.

Quest Food Management Services

October 2024 – Present

Lombard, IL

Software Intern

- Managed and accurately entered data into Salesforce for school districts nationwide, ensuring database integrity and consistency.
- Utilized web scraping tools and techniques to extract, process, and upload large volumes of information efficiently.
- Identified and resolved discrepancies in client data, preventing potential reporting errors.

Marmon Foodservice Technologies

May 2022/23- Aug 2022/23

St. Charles, IL

Software Engineering Intern

- Mastered a new Integrated Development Environment (IDE) to innovate and implement an advanced workflow within the company.
- Integrated various plugins and libraries, enhancing the user interface (UI) design process increasing team efficiency by 70%.
- Developed creative testing methods using Embedded, Integration, and System Tests, resulting in reduced review and execution time by 50%.

PROJECTS

Chat-with-Documents AI APP

Tech: FastAPI, MongoDB, AWS S3, LangChain, OpenAI API, FAISS, Python

- Developed a backend FastAPI application that enables users to upload documents and chat with their contents using GPT-based conversational AI.
- Implemented vector-based document retrieval with FAISS and OpenAI embeddings for context aware Q&A.
- Integrated MongoDB for session-based conversation history and AWS S3 for document storage and retrieval.

EDUCATION

Iowa State University | B.S. Software Engineering | GPA: 3.43 | Graduated

Senior Project | CyVital Project

- Engineered a Python application to interface with EMG, ECG, and pulse oximeter sensors via microcontroller, enabling real-time bio-signal acquisition and analysis.
- Developed an interactive GUI for visualizing and interpreting physiological data, enhancing usability and lab workflow efficiency.
- Integrated hardware-software pipelines and implemented signal-processing algorithms to support data visualization and feature extraction.

Relevant Course Work / Skills

- Machine learning | Data structures and Algorithms | Databases
- Java | Python | HTML | VBA | Proficient in Excel | Salesforce |SQL