

# Sajan Patel

630.373.6811 | [sajanqt314@gmail.com](mailto:sajanqt314@gmail.com) | [www.linkedin.com/in/sajan-k-patel](http://www.linkedin.com/in/sajan-k-patel)

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## EXPERIENCE

### **Quest Food Management Services | Lombard, IL | October 2024 – Present**

#### **Software Intern**

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

### **Frigate Global | London, UK | December 2024 - July 2025**

#### **Full Stack Software Engineer Intern**

- 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.

### **Marmon Foodservice Technologies | St, Charles, IL | May 2022/23- Aug 2022/23**

#### **Software Engineering Intern**

- Quickly mastered a new Integrated Development Environment (IDE), enabling the design and implementation of an advanced workflow that streamlined company processes.
- Integrated multiple plugins and libraries to optimize the user interface (UI) design process, achieving efficiencies by 70%.
- Designed and implemented innovative testing strategies—including embedded, integration, and system tests—which reduced review and execution times by 50%.

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## PROJECT

### **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.

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## 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