

SAI DHANUSH SOMA

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SUMMARY

Aspiring Software Engineer with 1.5 years of software development experience, skilled in building scalable solutions and optimizing performance. Passionate about problem-solving, agile methodologies, scalability and system design. Seeking to leverage software development expertise to deliver impactful solutions.

SKILLS

Languages and Frameworks: Python, Core Java, Java Servlets, Langchain, Flask, SQL, NoSQL, Spring Boot, Hibernate, JDBC, Maven, Apache Tomcat, REST, HTML, CSS, Tailwind CSS, ReactJS, TypeScript, ExpressJS, NodeJS, Data Structures and Algorithms

Tools: Eclipse, VS Code, MySQL, PostgreSQL, MongoDB, Docker, Git, Jenkins, Junit, Jira Prometheus, Grafana, OpenAI API, Twilio API, Microsoft Word, Excel, Access and Outlook

WORK EXPERIENCE

Software Developer

Capgemini, Bengaluru, India

January 2023 - June 2023

- Developed a full-stack fitness and gym platform using the **MERN stack** (MongoDB, Express.js, React.js, Node.js) with an OTP-based authentication system via **Twilio API** for secure user verification.
- Engineered a real-time gym booking system leveraging MongoDB Atlas enabling location-based search and seamless reservations. Implemented an interactive exercise recommendation engine, categorizing workouts into Beginner, Intermediate, and Pro levels to enhance user engagement. Designed and optimized **RESTful APIs** for user authentication, gym booking, and workout recommendations, ensuring efficient request handling. Enhanced UI/UX performance using React.js and Tailwind CSS, incorporating **lazy loading** and optimized rendering for a seamless experience. Followed Agile methodologies, collaborating with developers and designers, conducting code reviews, and ensuring high-quality, scalable code.
- It is a Capgemini-Assessed Project Developed as part of a team during final year under Capgemini's guidance. Evaluated by Capgemini professionals through project reviews and interviews.

Research Intern

La Trobe University, Melbourne, Australia - Remote

July 2021 - June 2022

- Devised team in building Dashboard with Prometheus and Grafana with Python. Metrics collected to visualize data.
- Processed in connecting nodes, analyzing data, understanding blockchain framework, and brainstorming on how to accomplish other possibilities of IOT in consensus mechanism with **95% uptime** and **20% boost in efficiency**.

PROJECTS

SmartNest

August 2024 - December 2024

- Built a Smart Home product management application, frontend with **ReactJS** and executed backend functionality using **Java Servlets** to enable efficient CRUD operations and product catalog management. Implemented AI-driven recommendation agents using **LangChain** and GPT-4o-mini **refining customer wait times by 75%**.
- Managed **MySQL** and **MongoDB** databases, integrated **Elasticsearch** for enhanced search with semantic search embeddings using **Docker**, and **RAG-based search**, improving retrieval **accuracy by 60%**. Leveraged the **Open AI API** for LLM-, Designed a multi-role system (Customers, Store Managers, Salesmen) with authentication also Integrated Message Queues for efficient order processing.

Cuisine Connect

September 2024 - December 2024

- Developed an AI-powered chatbot for Cuisine Connect to streamline food ordering and deliver personalized menu suggestions, using React.js for the frontend and Python Flask for the backend **solving queries by 70% accuracy**.
- Integrated intelligent agents using OpenAI and **LangChain** to automate customer service tasks such as refund decisions, defect complaints, and fraud detection, significantly improving operational efficiency.

EDUCATION

Illinois Institute of Technology, Chicago, IL

August 2023 - May 2025

Master's in Computer Science,

Presidency University, Bengaluru, Karnataka, India

August 2019 - June 2023

Bachelor of Engineering in Computer Science,