

Sagar Patel

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EDUCATION

The Ohio State University | *Columbus, Ohio*

Aug 2020 - May 2024

- Bachelor's of Science in Computer Science & Engineering

GPA: 3.38

SKILLS

Languages: JavaScript, Java, Python, HTML, TypeScript

Frameworks: React, Springboot, Angular, jQuery, JUnit

Platform/Tools: Node.js, AWS, Docker, Google Cloud Run, MongoDB, CSS, JSON, Git, JSX

PROFESSIONAL EXPERIENCE

Civillience – Front End Developer Intern

Aug 2023 – Aug 2024

- Contributed to a **React**-based application serving 1,000+ users, improving engagement through a responsive and intuitive interface.
- Built seamless **API** integration using **AWS Lambda** and **API Gateway** bridging the frontend with backend databases (**DynamoDB** and **PostgreSQL**).
- Implemented secure user authentication with **AWS Amplify** and **Cognito**, safeguarding sensitive data for 10,000+ daily API requests.
- Leveraged technologies such as **React**, **AWS**, **HTML**, **CSS**, **JavaScript**, **JSON**, **PostgreSQL**, and **DynamoDB** to deliver a scalable and responsive application.

Commercial Financial Consulting – Software Engineer (Contract Work)

Oct 2022 – Apr 2023

- Developed and maintained a responsive web application using **Angular**, enabling improved client engagement for a Massachusetts-based consulting firm.
- Optimized operational costs, achieving a 50% reduction in monthly expenses through strategic implementation of cost-effective solutions.
- Deployed the application on **AWS**, utilizing **S3**, **CloudFront**, **SES**, and **Lambda API** to ensure efficient, secure, and scalable performance.

PROJECTS

DigiVault | React Web App - <https://digivault-two.vercel.app>

Oct 2024 – Jan 2025

- Developed a secure crypto portfolio management platform with the **React-Springboot** tech stack, enabling users to track an unlimited number of wallet addresses across 15+ supported crypto networks.
- Integrated additional features to enhance user engagement while keeping users informed of market trends.
- Deployed the front-end via **Vercel** for seamless accessibility and containerized the back-end with **Docker**, deploying it to **Google Cloud Run** for scalable performance.

Blood Pressure Capturing | React Native Mobile App

Jan 2024 – May 2024

- Revolutionized health data tracking by developing a **React Native** mobile app with integrated **artificial intelligence (AI)** for seamless and accurate health monitoring.
- Designed a robust **OCR** pipeline by integrating **EasyOCR** with a custom preprocessing algorithm, achieving over 85% accuracy in extracting critical health information from processed images.
- Developed using **React Native** with **JavaScript** for the frontend, **Python** with **Flask** for backend server functionality, and Firebase Realtime Database for seamless data storage and retrieval.

COURSEWORK

Computer Science

- Software Development Design & Run-time Analysis, Web Applications, Programming Techniques, Agile development with SCRUM practices, Database Systems, Intro to AI, Computer Networking

Math

- Calculus I/II, Linear Algebra, Foundations of Higher Mathematics