

SOHAN MAVJI

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EDUCATION

City, University of London
B Sc (Hons) Computer Science

Sep 2022 — Jul 2025
GPA: 2:1 (59.16%)

Alperton Community School
Level 2 & Level 3

Sep 2015 — Jul 2022

PROJECTS

DevPilot – AI Code Mentorship Platform | Next.js, React, Node.js, Express, Supabase, TailwindCSS, Vercel

- Built a full-stack web application that allows developers to upload entire projects and receive AI-driven explanations, improvement suggestions, and auto-generated test cases for any code query.
- Implemented a vector-based code retrieval pipeline with FAISS embeddings for accurate snippet matching and detailed AI explanations in real time.
- Added user authentication, project management, and chat history via Supabase, providing a personalised code mentoring experience.
- Designed a modern developer dashboard with responsive layouts, typing animations, and a dark-themed UI optimised for readability.
- Deployed on Vercel (frontend) and Render (backend) with secure environment variables, automated builds, and real time API communication.
- Showcases advanced skills in AI integration, full-stack engineering, prompt design, and real-time data visualisation for intelligent developer tools.

TripMind – AI Travel Planning Web Application | Next.js, React, Node.js, TailwindCSS, Framer Motion

- Built a full-stack AI-powered travel planner that generates personalised itineraries, accommodation, and budget breakdowns based on user preferences.
- Implemented natural language trip generation using LLaMA 3.1 through Groq SDK, producing structured JSON responses rendered into a real-time UI.
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- Added location-based data enrichment via Google Maps Geocoding API and high-quality seasonal imagery from Unsplash.
- Designed interactive components including budget visualisation charts, itinerary mapping, and a PDF export feature for user convenience.
- Deployed on Vercel with CI/CD from GitHub, managing environment variables securely and achieving seamless global scalability.

Cloud-Based Event Management System | React Native, React.js, Node.js, Firebase Authentication, Firestore, Cloud Functions

- Designed and developed a mobile and web application for the Navratri Festival, used by over 1,000 attendees.
- Implemented QR code ticketing and validation, a real-time food ordering system with push notifications, and role-specific dashboards for admins, kitchen staff, and attendees.
- Improved event operations by reducing queues, streamlining staff communication, and providing real-time analytics to organisers.
- Built with React Native, React.js, Node.js, Firebase Authentication, Firestore, and Cloud Functions, deployed on Google App Engine.

Budgetly – Personal Finance Web Application | React, Firebase (Firestore + Auth), Chart.js

- Developed features to track expenses, manage monthly budgets, and apply filters (by category, month, year, and amount).
- Implemented user authentication and protected routes for secure login/registration.
- Designed a dashboard with data visualisations (bar, pie, and line charts) to provide real-time insights into spending.
- Integrated predictive analytics using TensorFlow.js, applying historical data, seasonal trends, and inflation adjustments to forecast future expenses.
- Showcased strong skills in full-stack development, cloud integration, and applied machine learning.

- Built a full-stack budgeting and expense management app using React, Firebase (Firestore + Auth), and Chart.js.

EXPERIENCE

Backend Developer

Oct 2025 — Jan 2026

LOCAL GROWN SALADS

Toronto, Canada

- Collaborating with the UX team to design and develop backend APIs that power real-time dashboards and user interfaces across the LGS EcoSystem.
- Working with Node.js and Firestore to build secure, efficient data endpoints integrating farm, agronomist, and customer subsystems.
- Translating UX requirements into scalable backend solutions that streamline data retrieval and support multi-layer visualisations.
- Implementing API integrations between Agronomist, Grower, Barn, and Director modules to ensure consistent data flow and accuracy.
- Using Jira for sprint planning, issue tracking, and documentation of backend tasks to align with agile development processes.
- Testing, debugging, and optimising backend endpoints to improve system performance and reliability across the EcoSystem.

Customer Delivery Driver

Jan 2022 — Jun 2024

ASDA

Wembley Park, London

- Delivering groceries to customers in a timely, professional manner, ensuring high levels of customer satisfaction.
- Providing excellent customer service at the doorstep, handling any queries or concerns efficiently.
- Performing vehicle safety checks before and after shifts to ensure deliveries are completed safely.
- Managing route planning and adapting to traffic conditions to maintain delivery schedules.
- Handling grocery items with care to ensure goods are delivered in excellent condition.
- Maintaining a clean, organized van to comply with health and safety standards.

SKILLS

Programming Languages: JavaScript, Python

Frameworks & Libraries: React, Node.js, Express, React Native

Cloud & DevOps: Firebase, Google App Engine, Vercel

Databases: Firestore