

Sohan Mavji

Computer Science Student

PERSONAL STATEMENT

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I am a Computer Science graduate from City, University of London, with hands-on experience in developing full-stack applications and solving real-world problems through software. For my final year dissertation, I built and deployed a cloud-based event management system for a charity using React, React Native, Node.js, and Firebase, improving efficiency for a large cultural festival with over 1,000 attendees. This project strengthened my skills in full-stack development, cloud deployment, database management, and real-time system integration.

I am now seeking a graduate software engineering or developer role where I can apply my technical skills, problem-solving ability, and commitment to delivering impactful solutions.

EDUCATION

- City, University of London BSc (Hons) Computer Science (2022 - 2025) 2:2 (59.16%)
 - Year 3 Modules
 - Advanced Database
 - Theory of Computation
 - Functional Programming
 - Data Visualisation
 - Individual Project
 - Year 2 Modules
 - Data Structures and Algorithms
 - Professional Development in IT
 - Object Oriented Analysis and Design
 - Cloud Technology for Business Transformation
 - Computer Networks
 - Programming in C++
 - Team Project
 - Language Processors
 - Year 1 Modules
 - Programming in Java
 - Systems Architecture
 - Databases
 - Mathematics for Computing
 - Introduction to Algorithms
 - Operating Systems
 - Computer Science, Ethics & Society
 - Alperton Community School Level 2 & Level 3 (2015 to 2022)
 - A-levels: Biology (B), Level 3 National Diploma ICT (D*D)
 - GCSEs: 9 Grade 9-6 including Maths, English, Combined Science, Geography, Gujarati, Media Studies, Computer Science. EBacc student.

TRANSFERRABLE SKILLS

Critical Thinking – Had to think very critically when purchasing broken hardware devices in order to ensure there is profit to be made when repairing and selling.

Communication – Effectively have talked to customers in all my previous workplaces in order to understand their needs.

Project Management – Completed a project management unit in my previous qualifications to ensure the project that was managed was completed on time.

Time Managed – Working in a fast-paced restaurant developed my time management skills as it is essential when it comes to serving food.

WORK EXPERIENCE

LOCAL GROWN SALADS, Toronto, Canada

October 2025 to Present

Backend Developer

- 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.

ASDA, Wembley Park, London

September 2024 to July 2025

Customer Delivery Driver

- 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.

FANATICS, Wembley Stadium, London

May 2024 to July 2025

Casual Sales Assistant – Event only

- Providing exceptional customer service to a diverse range of sports fans and event attendees, ensuring a positive shopping experience
- Assist customers in locating merchandise, offering product knowledge and recommendations to drive sales.
- Operate the cash register efficiently, handing credit card transactions.

MCDONALDS, North Acton, London

January 2022 to June 2024

Crew Member

- Providing a high – level customer service to meet customer requirements and satisfy their needs.
- Maintaining a clean and tidy restaurant to meet good health standards.
- Building and maintaining team. Relations
- Interacting with Customers
- Interacting with Epos Systems to take orders.

POUNDSTRETCHER, Harlesden, London

July 2020 to August 2020

Sales Associate

- Communicated effectively with customers.
- Heavy lifting of stock
- Resolved and analysed customer feedback.
- Ability to work independently with minimal supervision.
- Maintaining a clean work store

PROJECTS AND ACHIEVEMENTS

DevPilot – AI Code Mentorship Platform

- 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.
- Developed using Next.js, React, Node.js, Express, Supabase, TailwindCSS, and Vercel, integrating LLMs for semantic code search and contextual reasoning.
- 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

- Built a full-stack AI-powered travel planner that generates personalised itineraries, accommodation, and budget breakdowns based on user preferences.
- Developed with Next.js, React, Node.js, TailwindCSS, and Framer Motion, integrating Groq AI, Google Maps API, and Unsplash API.
- Implemented natural language trip generation using LLaMA 3.1 through Groq SDK, producing structured JSON responses rendered into a real-time UI.
- 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.
- Showcases strong expertise in AI integration, API-driven full-stack development, and UX design for intelligent web applications.

Cloud-Based Event Management System

- Designed and developed a mobile and web application for the Navratri Festival, used by over 1,000 attendees.
- Built with React Native, React.js, Node.js, Firebase Authentication, Firestore, and Cloud Functions, deployed on Google App Engine.
- 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.

Budgetly – Personal Finance Web Application

- Built a full-stack budgeting and expense management app using React, Firebase (Firestore + Auth), and Chart.js.
- Implemented user authentication and protected routes for secure login/registration.
- Developed features to track expenses, manage monthly budgets, and apply filters (by category, month, year, and amount).
- 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.
- Delivered a modern, responsive UI with consistent dark-theme styling.
- Showcased strong skills in full-stack development, cloud integration, and applied machine learning.
- Managed the full software lifecycle: requirements gathering, system design, coding, testing, and deployment

- Completed a 20-hour Python programming project (GCSE).
- Built a web development project independently to learn how to create websites from scratch.
- Over 1,000 hours of volunteering as part of the Shiv Shakti Maa Meldi Society.

References

Available upon request
