

Harjot Singh

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TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Java, Python, C/C++, SQL

Tools: Node.js, React, React Native, PostgreSQL, MongoDB, GitHub, AWS, Docker, OAuth, Postman

Skills: Microservices, API Design, Unit Testing, Mobile Development, Problem Solving, UI/UX Design

EXPERIENCE

Software Engineer Intern, Aether Automation

April 2025 – Present

- Designed and implemented backend workflows in **Java** and Deluge to automate tasks in Zoho CRM, improving efficiency and reducing human error for clients saving **15-25 hours per week** in administrative tasks.
- Developed secure application using Firebase and OAuth, and integrated backend logic for syncing with EHR systems like Tebra, improving patient onboarding speed by 20+ hours.
- Integrated **OpenAI API** into Zoho CRM to auto-generate email drafts, meeting notes, and action item summaries, **reducing client data task times by 40%** and improving response accuracy.
- Collaborated directly with clients to identify business needs and designed tailored automation solutions, utilizing **Java** and Deluge to automate repetitive tasks in order to reduce operational costs and time.

Front-end Engineer/Web Development Director, SFU Robot Soccer Club

February 2024 – Present

- Led a team in developing a responsive web platform using **React.js**, improving accessibility across mobile and desktop devices, which resulted in a **15% increase in traffic** and doubled user engagement on mobile.
- Optimized accessibility through **UX design**, improving user engagement, and reducing bounce rates by 25%.
- Collaborated with cross-functional teams to translate business requirements into technical solutions, ensuring a usable and cross-browser compatible website, enhancing the user experience for students and developers.

Software Engineer, Study Spotr

August 2024 – April 2025

- Built and optimized RESTful APIs using Node.js and AWS, powering a study-finding web application that helped 200+ students discover ideal study spaces based on real-time data and user preferences.
- Designed and optimized relational schemas in PostgreSQL to support study spot listings and real-time feedback; deployed backend services to Render, ensuring seamless data flow and integration with the frontend.
- Comprehensive unit and integration tests using Postman, reducing post-release bug reports by over 3x.
- Deployed core backend features to production and maintained post-launch stability by monitoring performance, conducting regular updates, and responding to user-reported issues.

PROJECTS

FoodVisionAI | *React Native, Firebase, MongoDB, Node.js, AWS, OpenAI*

May 2024 – August 2024

- Build cross-platform mobile application using React Native to help people save money and reduce food waste.
- Developed secure back end using Node.js with AWS S3 buckets for storing AI generated images to build digital cookbook with food consumers have left over or on hand to reuse and reduce thrown away food.
- Began training my own model for GenAI using Autolume by collecting, and cleaning a custom dataset of food.

Bin There Dumped That | *Python, Arduino, React.js, OpenAI, Flask, MongoDB, Node.js*

October 2024

- Created an innovative smart waste management system that processes real-time data to optimize waste collection and recycling efforts, tackling inefficiencies in waste disposal and contributing to sustainability goals.
- Developed a dashboard using **React**, CSS, and Framer Motion for real-time waste collection analytics, creating **reusable UI components** and implementing responsive design principles to deliver an intuitive user experience across desktop and mobile devices, while optimizing performance for **scalable data visualization**.
- Led a team to **1st place at StormHacks 2024**, competing against 300+ developers and 65 projects, demonstrating innovation in tech solutions and promoting inclusivity in the development process.

EDUCATION

Simon Fraser University

September 2021 – January 2026

Bachelor of Science in Computer Science & Interactive Technology

Burnaby, BC

- Related Courses: Mobile Computing (React Native, Xcode), UX Design, Interface Design, Backend API Architecture, Web Development (JavaScript), Game Development (Java)