

HARSIMARPREET SINGH SAHOTA

Calgary, AB

Harsimar1288@gmail.com | (368) – 299-8325 | [LinkedIn](#) | [GitHub](#) | [Portfolio](#)

SUMMARY

Full Stack Web Developer skilled in MERN stack, Docker CI/CD, and AWS/Vercel deployments. Delivered production UI modules with React reducing defects by 40%, scalable Node.js/Express APIs cutting failures by 35%, and AI-integrated platforms tripling user engagement. Proven through software internship, industry capstone, and live SaaS projects like FinVoice and InterroGen AI. Actively pursuing Full Stack Web Developer roles.

WORK EXPERIENCE

Headway Software Solutions, Calgary, Canada
Software Developer - Intern

Sep 2024 – Aug 2025

- Engineered high-performance UI modules using React and modern Javascript, **reducing UI-related QA defects by 40%** through reusable components and optimized rendering pipelines.
- Architected scalable backend APIs with Node.js, Express, and MongoDB, **cutting recurring API failures by 35%** across critical workflows.
- **Reduced API development and debugging time by 30%** through strategic use of AI-assisted code generation and debugging tools (Cursor, OpenAI/Gemini), improving delivery speed across backend workflows.
- Automated multi-environment deployments using GitHub Actions + Docker, shipping builds to AWS/Vercel/Netlify and **reducing deployment effort by 70%** while **improving QA cycle speed by 30–40%**.

Alberta AI & Tech Innovation Club, Calgary, Canada
Contributing Developer

Oct 2025 – Dec 2025

- **Developed and contributed a production-style full-stack practice platform** to an **800+ member tech community**, implementing React routing, centralized state management, RESTful APIs, and MongoDB schemas to support persistent, multi-user workflows.
- **Designed secure authentication and session management flows** using JWT and backend validation, enabling reliable access and driving **3× growth in member platform usage**.
- **Integrated AI-powered features as backend services**, enhancing role-specific content delivery while preserving a web-first architecture focused on scalability, performance, and maintainability.

Blue Giant Equipment Corporation, Mississauga, Ontario (Remote)
Software Developer - Industry Project

Jan 2026 – April 2026

- **Designed an enterprise-grade firmware and documentation delivery platform** on AWS for industrial control panels, leveraging S3 + CDN to support scalable, multi-site IIoT deployments.
 - **Built secure admin workflows** for firmware versioning, device provisioning, site allocation, and role-based access (Admin/Technician), modeled for **global manufacturing environments**.
 - **Developed device update and reporting pipelines** using REST APIs and MQTT-based communication, enabling reliable firmware delivery and update status tracking in a production-style architecture.
-

PROJECTS

FinVoice — AI-Powered Invoice Management Platform | [Live](#) | [GitHub](#)

- Built a **production-ready AI invoicing system (MERN + Gemini API)** automating invoice parsing, JWT auth, dashboards, PDF exports, analytics, and reminders, **reducing manual finance workflows by 70%+**

InterroGen AI — AI Technical Interview Generator | [Live](#) | [GitHub](#)

- **Designed a scalable MERN interview platform** with modular API architecture, JWT authentication, session persistence, and decoupled Gemini integration, improving interview preparation efficiency by 3×.
-

EDUCATION

Southern Alberta Institute of Technology (SAIT), Calgary, Canada
Diploma in Software Development

Aug 2024 – Apr 2026

Relevant Coursework: Web Application Development • Database Management Systems (SQL, MongoDB) • Software Engineering & SDLC • Object-Oriented Programming (OOP)

CERTIFICATIONS AND KEY SKILLS

Certifications: Y Combinator – Train to Work at a Startup (Forage Virtual Experience), 2025

Languages: JavaScript (ES6+) • TypeScript • SQL • HTML5 • CSS3

Developer Tools: Git • GitHub • Docker • GitHub Actions (CI/CD) • Postman • AWS • Agile • SDLC • Vercel • AI IDEs: Cursor, Windsurf

Libraries / Frameworks: React.js • Node.js • Express.js • MongoDB • Tailwind CSS

AI & Computer Science: OpenAI API • Prompt Engineering • Data Structures & Algorithms • AI Development Tools (ChatGPT, Gemini, Copilot + others)