

Jai Sachdeva

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Education

Dalhousie University, Halifax, NS 2022–2026
Bachelor of Computer Science (Honours) | Certificate in Web & Mobile Development | Certificate in Communication Technologies and Cyber Security

Technical Skills

- **Languages & Frameworks:** Java, Python, TypeScript, JavaScript, Swift, C, C#, SQL, React Native, React.js, Next.js, Angular, Node.js/Express, SwiftUI
- **AI & Data:** RAG pipelines, Ollama, Whisper, Llama 3.3 70B, Groq API, DBSCAN, scikit-learn, pandas, prompt engineering, REST API design, PostgreSQL, MySQL, SQLite, Firebase
- **Cloud, DevOps & Security:** AWS, GCP, GitHub Actions (CI/CD), Azure DevOps, NIST 800 series, ISO 27001, CrowdStrike Falcon EDR, Splunk SIEM, Azure AD (SSO and MFA), ServiceNow
- **Mobile & XR:** Expo (EAS), Android SDK, Unity, Meta Quest 3, OpenXR, XR Interaction Toolkit, Stripe, Prisma, Figma

Work Experience

Lead Developer, Good Neighbour App 2026–Present

- Took over a live App Store and Google Play app with 1,300+ users across three repos and an AWS hosted backend, led a small team using Agile sprints to ship features and platform updates to production.
- Extended the Stripe subscription billing system with payment gating middleware, webhook handling, and subscription lifecycle sync; shipped an Android camera permission fix via EAS OTA update.

Research Assistant, BeHCI Lab, Dalhousie University 2025–Present

- Worked directly with faculty researchers to understand their study goals, then built AI powered research platforms using RAG, Ollama, and Whisper, deployed across 100+ live participant sessions with zero unplanned downtime.
- Built backend pipelines connecting language models, speech to text, and relational databases into production systems supporting five peer reviewed publications.

Technical Analyst (ITS), Dalhousie University Sep. 2023–Apr. 2026

- Resolved 500+ IT and security incidents for a 20,000+ user base using ServiceNow and CrowdStrike Falcon EDR, maintaining NIST 800 series and ISO 27001 compliance.
- Integrated Splunk SIEM for log analysis and threat detection, and implemented Azure AD SSO and MFA across university systems.

Selected Projects

ArgumentMapper | Unity 6, C#, Meta Quest 3, Llama 3.3 70B, Groq API 2025–2026

- Built a mixed reality system where a generative AI agent parses a user topic, generates a typed argument graph via LLM, and renders it as interactive spatial content on Meta Quest 3. Published at IEEE ISMAR 2026.

ProxiSense | Python, DBSCAN, RPLidar A1, Arduino, Raspberry Pi 4 2025–2026

- Designed, built, and evaluated a proximity-driven display adaptation system achieving 96% zone classification accuracy at 38 ms latency on \$140 of hardware. Published at ACM SUI 2026.

MedAssist (Nurse Navigator) | Angular 10, TypeScript, SCSS, Cody AI API 2024

- Built a full stack Angular web application with generative AI clinical guidance in 36 hours. Won first place at a Generative AI Hackathon.

Publications

Nine peer-reviewed publications in AI, AR/VR, and HCI, including IEEE ISMAR 2026, ICMI 2026, ACM SUI 2026, HCI International 2026 (Springer LNCS), and IGI Global 2026.

Awards

Aramark Leadership Award, Dalhousie University 2025–2026

President, Computer Science Society, Dalhousie University (1200+ students) 2025–Apr. 2026