

Braden Woods

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SUMMARY

Software developer with production experience shipping full-stack applications, building AI/ML tools, and co-founding a startup. Proficient in Python, TypeScript, JavaScript, Java, and C. Strong foundation in data structures, algorithms, databases, and system design. Proven ability to deliver high-quality software under real constraints.

EDUCATION

University of Alberta — BSc Computer Science, Minor in Business Sep 2023 – May 2027

Relevant Coursework: Data Structures & Algorithms, Operating Systems, Databases, Software Engineering, Networks

Certification: Google Cybersecurity Professional Certificate

EXPERIENCE

Co-Founder — *Hexz (ML Infrastructure Startup)* Jan 2026 – Present

- Building infrastructure for ML teams to efficiently store and deduplicate model checkpoints
- Implementing content-defined chunking algorithms targeting 60-70% storage cost reduction
- Conducting customer discovery with ML engineers to validate product-market fit

Software Developer — *Freelance* Sep 2025 – Dec 2025

- Shipped production full-stack application handling 500+ monthly requests for local business
- Built React/TypeScript frontend with Node.js/Express backend and SQL Server database
- Optimized database queries and reduced average response time by 30%
- Implemented role-based access control and secure authentication; delivered on deadline

PROJECTS

SecureCode-AI — Security Analysis Tool — *Python, AST Parsing, OpenAI API* Dec 2025 – Present

- Built static analysis tool that scans codebases for OWASP Top 10 vulnerabilities
- Used in production to identify 12+ security issues in client's codebase before deployment
- Improved detection accuracy from 18% to 54% through AST pattern matching and AI-assisted analysis

COMMUNITY & VOLUNTEERING

SAPAA — PWA and Mobile — *React, TypeScript, Node.js, Supabase, AWS* Jan 2026 – Present

- Contributing to production application serving 50+ users for Alberta nonprofit
- Refactored data access layer and improved endpoint efficiency, reducing database calls by 50%
- Debugged critical cross-browser rendering issues affecting 20% of users

Volunteer Volleyball Coach — *Edmonton, AB* 2024

- Coached youth team for full season; demonstrated leadership, communication, and mentorship

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, Java, C, C#, SQL, Rust (familiar)

Frontend: React, Next.js, Angular, Tailwind CSS, responsive design

Backend: Node.js, Express.js, REST APIs, FastAPI (familiar), authentication/authorization

Databases: PostgreSQL, SQL Server, Firebase, Supabase, MongoDB (familiar), query optimization

DevOps/Cloud: AWS, Azure (familiar), Git, Docker, Linux, CI/CD pipelines

Practices: Agile/Scrum, test-driven development, code review, technical documentation

INTERESTS

Marathon running, golf, volleyball, backcountry camping