

ALEX KACHUR

Full-stack & AI developer

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Final-year software engineering student who builds full-stack web apps with LLM features that do real work: an AI assistant over household finance data, and two sites built for clients in 2026, one live. Three years of QA on Dynamics CRM before moving into development. Available full-time from May 2027.

SKILLS

Programming: JavaScript, TypeScript, Java, C#, Python, SQL (T-SQL, PostgreSQL, Oracle), Kotlin, HTML, CSS

Web and apps: React, Next.js, Node.js, Express, Spring Boot, .NET and WPF (MVVM), Jetpack Compose, Tailwind CSS

LLM integration: Anthropic API (Claude), Gemini API, tool calling, structured output, evaluation

Data and ML: SQLite, Firebase Firestore, Entity Framework Core, ML.NET, Power BI

Testing and delivery: Jest, Vitest, Selenium, Cypress, test-case design, Jira, Git and GitHub, GitHub Actions, Vercel, Cloudflare Pages, Linux, Claude Code

Spoken languages: English, Russian and Hebrew, all fluent

EXPERIENCE

Freelance Web Developer

2026 to present

Self-employed, Thornhill, ON

- Built and handed off a five-page marketing site for **Uraz Hoops**, a basketball training business (Next.js 16, React 19, Tailwind CSS v4, Resend), live at urazhoops.com, with a handoff guide so the owner can update it himself.
- Designed and built a customer review funnel for **Think Smarter Insurance**, an Ontario brokerage: single-file HTML, CSS and JavaScript with no build step, on Cloudflare Pages, with private feedback routed by email and an owner settings panel. Demo live, go-live pending.
- Researched review-gating rules (Google policy, Competition Act, RIBO Guidance 006), documented the risk for the client, and shipped a compliance toggle so the flow can change without a developer.

QA Tester

Jan 2022 to Jan 2025

360 Plus IT Consulting, Thornhill, ON

- Wrote and ran 50+ test cases for Microsoft Dynamics CRM and Power Apps workflows against acceptance criteria, reducing post-release defects.
- Wrote SQL queries to validate data across tables, improving reporting accuracy by 15%; logged and tracked 30+ defects in Jira and worked with developers on root cause.
- Joined stand-ups, sprint planning and retrospectives; refined user stories and acceptance criteria with the product owner.

Manager

Aug 2019 to Jan 2022

IOAL Distributing, Mississauga, ON

- Ran daily warehouse operations (inventory control, order fulfilment, vendor and client service), supervised staff, and cut order processing time by 20%.

PROJECTS

Portfolio site (alexkachur.com)

Sep 2026 to present

Personal project. Astro, TypeScript, SQLite (sql.js), Anthropic API (Claude Haiku 4.5), Upstash Redis, Vercel, Vitest.

- Built a portfolio that compiles into a SQLite database at deploy time. Visitors ask questions in plain English; Claude writes the SQL, the server checks it against the real database, and the visitor's browser runs it.
- Capped AI spending with a monthly limit, an answer cache and a rate limiter; CI replays a 42-question evaluation on every push, alongside 300+ tests. Public JSON API with an OpenAPI 3.1 document.

SplitRoof AI assistant

Sep 2026 to present

Team project (COMP 231). React, Node.js, Express, Firebase, Anthropic API (Claude Haiku 4.5), Jest.

github.com/AlexKachur98/splitroof-assistant-spike

- Own the assistant for a shared-household expense app: a read-only agent that answers "who owes what this month" from the household's own data through three typed tools (`getBalance`, `getCategorySpend`, `getBudgetStatus`). The model never does the arithmetic itself.
- Built the spike first: three tool functions with 12 passing Jest tests before wiring in the model, then 5 tests against the live model. Also maintain the project documentation and keep the team on schedule.

EDUCATION

Software Engineering Technology, Advanced Diploma

Jan 2025 to Apr 2027 (expected)

Centennial College, Toronto, ON. GPA 4.4 / 4.5

- Coursework: Data Structures and Algorithms, Software Security, Enterprise Application Development (Spring Boot), Data Warehousing and Predictive Analytics, API Engineering and Cloud Computing.
- Peer Mentor since Jan 2025 (first-year coursework and study sessions). Captain of a competitive gaming team since 2014.