

Sina Dehghani

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EDUCATION

University of Victoria
Bachelor of Computer Science

Victoria, BC
September 2023 - April 2028

EXPERIENCE

Software Developer Intern
Cortico Health Technologies

September 2026 – April 2027
Remote

- Eliminated failed uploads and orphaned database records in patient messaging chats used by **400+ clinics** by rewriting filename parsing with **UTF-8 byte truncation** and error handling that keeps **PII** out of logs.
- Hardened patient booking against shared backend outages for **35+ clinics** by mapping **7 dependencies** through simulated failures and fixing a swallowed fetch error that froze the pharmacy step.
- Built full-stack features across a **React** SPA and a **Django/PostgreSQL** monolith on a multi-service **Docker Compose** stack running on **Linux**, shipping through **Jenkins CI**.

Application Developer Co-op
Noratek Solutions Inc.

May 2025 – August 2025
Prince George, BC

- Implemented the **OAuth 2.0** authorization layer for a **Bluebeam API** integration in CityReporter's Permitting module, enabling in-app PDF editing and markup that replaced a 3-step manual workflow.
- Automated **20 end-to-end** UI test suites into a nightly **Jenkins** build, cutting **4 hours** of morning re-runs and freeing QA to write new tests.
- Built an employee hours reporting feature in **Java** and **PostgreSQL** with JasperReports templates, adopted by **80%** of municipalities on CityReporter.

Full-Stack Developer & Vice President
VikeLabs

September 2024 – Present
Victoria, BC

- Lead full-stack development of a dining app aimed to serve **20,000+ students** across web, API, and data layers.
- Designed **Flask APIs** linking a SQLAlchemy schema to a **Next.js** frontend with interactive maps and filters.
- Redesigned the **PostgreSQL** schema and migrated the app off the old schema, fixing an **N+1 query** in an endpoint loading store cards.
- Reviewed **60+ PRs** and set up **GitHub Issues & Projects** for a 9–12 member team.

HIGHLIGHTED PROJECTS

AWS DeepRacer Hackathon 2024 (Winner) [🔗](#) | *Python, RL, AWS*

November 2024

- Won **1st place out of 60 teams**, finishing within **0.048 seconds of the all time hackathon record** on the AWS re:Invent 2018 track.
- Engineered a custom **reinforcement learning reward function** combining multi-zone centerline tracking, asymmetric left-side biasing, and conditional speed rewards on straight segments to optimize the racing line.

Draftly [🔗](#) | *Next.js, Tailwind CSS, Supabase, Anthropic SDK, Docker*

April 2026 – Present

- Developing an AI dev tool that turns UI sketches into production-ready frontend code using Claude's vision API.
- Engineered an iterative prompt engineering pipeline with a detailed system prompt, refining output through test-and-tune cycles on real sketch inputs to maximize layout and styling accuracy.
- Designed a **3-panel editor** with drag-and-drop image upload, live preview, and syntax highlighted code output, paired with **Supabase auth and row-level security** for saving past conversations.

Anchor | *Next.js, TypeScript, Tailwind CSS, Supabase, Claude API, Resend, Vercel*

March 2026

- Built a full-stack mental health support app for a target population of **3.5M+ North Americans with psychosis disorders** in a **4 person** hackathon team within **6.5** hours.
- Wired **Resend email notifications** with consent based opt-in/opt-out, deep-linking users back into the app to start a grounding conversation directly from their inbox.

TECHNICAL SKILLS

Languages: Java, Python, C, C++, JavaScript, TypeScript, Rust, HTML, Haskell, R

Libraries & Frameworks: React, Next.js, Node.js, Django, Flask, Spring, Grails, Tailwind CSS, SQLAlchemy, BeautifulSoup, JUnit, Selenium, Pandas, NumPy

Databases: PostgreSQL, Supabase, SQLite

Other: Linux, Docker, Jenkins, AWS, GitHub Actions, CI/CD, Git, Postman, Figma, REST APIs, Agentic AI, Claude Code, Codex