

# Orel Ben Neriah – Fullstack Software Engineer

[orelbn.ca](http://orelbn.ca) | [github.com/orelbn](https://github.com/orelbn)

Bachelor of Computer Science – UBC - 2024 | Bachelor of Arts (Criminology) – SFU - 2020

---

## TECHNICAL SKILLS

**Languages:** TypeScript, HTML/CSS, Python

**Frameworks & Libraries:** Next.js, React, Vue, Electron, Node JS, Lexical, AI SDK, Zustand, Better-Auth

**Databases & Cloud:** AWS, PostgreSQL, Drizzle ORM, Redis, DynamoDB

**Tools & Testing:** Docker, Git/GitHub, Bun, Vitest, Playwright, Jest, Pytest

---

## PROFESSIONAL EXPERIENCE

**Co-Founder**, Stride Software Inc., Vancouver

May 2024 – Sep 2025

- Developed a specialized AI Assistant for structural engineers using *Next.js* and Vercel's *AI SDK*, with a *Python*-based RAG pipeline for PDF document processing, *Redis* caching for optimized performance, and secure authentication through *Better-Auth*.
- Built a desktop editor for engineering calculations and documentation using *Electron* and *Lexical*, with sophisticated state management using *Zustand*, *Node.js* filesystem API for file operations, and a custom graph-based algorithm to process calculation dependencies efficiently.
- Upgraded a client's *Postgres* database for managing a large amount of internal fenestration data, implementing row-level security, role-based access control, and remote procedure calls to build a secure and efficient system for handling bulk data uploads and complex data retrieval.
- Created UIs with React 19, Shadcn, and TailwindCSS, delivering responsive and accessible applications.
- Implemented multi-layer testing across all projects using *Vitest*, *Playwright*, *Pytest*, and *pgTAP*.
- Used *Docker* to support local development and testing, and deployed applications to *AWS* with infrastructure as code through CI/CD pipelines hosted on *GitHub*.

**Application Developer Co-op**, Service BC (BC Registries), Vancouver

May 2023 – Aug 2023

- Contributed 50+ [pull requests](#) to BC Registries' modernization project, implementing new registration flows in *Vue.js* and *TypeScript* while fixing critical bugs and improving overall code quality.
- Coordinated effectively with designers, engineers, quality assurance testers, and domain experts while delivering regular project updates to stakeholders, ensuring clear communication.

**Web Developer Co-op**, Invoke Co., Vancouver

Sep 2022 – Dec 2022

- Delivered key features for the [Incrowd](#) live-streaming platform using React and TypeScript, implementing enhanced analytics tracking, seamless audio/video switching across multiple synchronized streams, and strengthening security measures.
  - Built the platform's backend infrastructure with GraphQL and AWS services, including AppSync for APIs, *DynamoDB* for data storage, Lambda for serverless functions, API Gateway for routing, S3 for media storage, and implemented security through IAM policies and WAF configurations.
  - Promoted effective teamwork by proactively identifying technical challenges and facilitating resolution through clear communication, ensuring timely project delivery.
- 

## OPEN SOURCE

**Math.js** - Updated *TypeScript* definitions to include generics, fixed bugs, and enhanced documentation to improve type safety, inference, and developer experience for TypeScript users.