

Orel Ben Neriah – Fullstack Software Engineer

orelbn.ca | github.com/orelbn

PROFESSIONAL EXPERIENCE

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

May 2024 – Sep 2025

- Developed a specialized AI Assistant for structural engineers, enabled RAG through a Python-based PDF ingestion pipeline, and optimized performance by caching data using Redis.
- Built a desktop editor for engineering calculations and documentation, with advanced state management, file operations, and a custom graph-based algorithm to process calculation dependencies efficiently.
- Upgraded a client's Postgres database and application to support bulk data uploads and complex data retrieval with enhanced security through row-level security and role-based access control.
- Implemented multi-layer testing (unit, integration, E2E, and database) across all projects.
- Used Docker to support local development and testing, and deployed applications to AWS with infrastructure as code through CI/CD pipelines.
- **Skills:** TypeScript, Python, React.js, Next.js, Node.js, Electron, Zustand, PostgreSQL, Redis, AWS, Docker, Better-Auth, Drizzle-ORM, TailwindCSS, Vitest, Playwright, Pytest, pgTap

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, 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.
- **Skills:** TypeScript, Vue.js

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

Sep 2022 – Dec 2022

- Delivered key features for the Incrowd live-streaming platform, implementing enhanced analytics tracking, seamless audio/video switching across multiple synchronized streams, and strengthening security measures.
- Partnered with team members to resolve challenges, ensuring smooth and continuous project progress.
- **Skills:** TypeScript, React, AWS (AppSync, DynamoDB, Lambda, API Gateway, S3, IAM, WAF)

EDUCATION

University of British Columbia – Bachelor of Computer Science

2024

- Achieved an **89.9%** cumulative grade point average.
- **Notable courses:** Computer Security, Cloud Computing, Advanced Relational Databases, Software Engineering Projects, and Applied Machine Learning

PROJECTS

Math.js (Open-Source Contributor)

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

AWS Schedulers (Course Project)

- Led a team of 8 in developing an AWS-sponsored meeting room booking system, contributing across frontend, backend, and infrastructure, and assisting all team members in completing tasks.
- **Skills:** TypeScript, React, MySQL, Prisma, AWS (CDK, Cognito, API Gateway, Lambda, RDS, VPC)