

BOSCO NG

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Education

Queen's University

Bachelor (Honours) in Computer Science

Sept 2024 - May 2028

Kingston, ON

Experience

Software Engineer Intern

Clover Labs

April 2026 – Present

Toronto, ON

- **Joined Canada's fastest-growing startup** building AI-powered vertical SaaS products, scaling from **\$0 to \$8M ARR in 6 months** and on track for **\$50M ARR** by end of 2026.
- Built **scalable web scrapers** in Python/Node.js, a **customer-facing dashboard** in Next.js/React with NoSQL and SQL databases, and **fine-tuned LLMs** for SEO-optimized content generation.

Scholar

Cansbridge Scholars

Feb 2026 – Present

San Francisco, CA


- Selected as **1 of 17 scholars** in an 8-week entrepreneurship fellowship for **Canada's top students**, focused on venture building and high-agency leadership.
- Built and pitched an **Ikigai venture project**, mentored by **Peter Thiel Fellows** and **YC-backed founders**, gaining exposure to venture capital and early-stage startup execution.

AI Engineer Intern

Lawtonica

Sept 2025 – Jan 2026

Kingston, ON

- Scaled an **LLM-powered assistant**  in an **early-stage AI civic-tech startup** using Node.js, TypeScript, PostgreSQL, and LangChain, boosting model accuracy from **70% → 94%** through optimized pipelines.
- Designed and deployed secure **APIs** with JWT authentication and Stripe integration, delivering reliable civic-tech services that make municipal by-laws accessible to residents, newcomers, and businesses.

Director of Information Technology

Queen's Computing Students' Association

April 2025 – Present

Kingston, ON

- Led a 14-member tech team building digital products for 1,800+ students, including COMPSA's website and digital infrastructure featuring an academic resources hub, live events calendar, internal job board, and photo gallery.
- Directed 6 major projects accumulating 7,800+ users to improve student life, including a Mobile App, 24/7 Room Booking Platform, E-Commerce Merch Store, Computing Clubs Hub, and AI Chatbot.

Projects

 [CASLAB Room Booking](#) | [in LinkedIn](#) |  1,000+

React | Next.js | PostgreSQL | AWS

- Built and deployed a **scalable 24/7 room booking platform** for 1800+ **Queen's CS students** featuring automated **email confirmations**, and an **admin panel**.
- Implemented **RESTful APIs** with optimized SQL queries to enable **real-time booking updates**, ensuring **low-latency** and **reliable user interactions**.

 [The Computing Clubs Roundtable Hub](#) | [in LinkedIn](#) |  6,800+

React | Next.js | PostgreSQL | AWS

- Partnered with **9 largest Computing & Engineering organizations** to architect a centralized **Full-Stack** platform serving **6,800+ students**, featuring an **Internal Job Board** that streamlines internal recruitment.
- Developed a comprehensive **Activity Hub** and secure **Admin Dashboard** with role-based access, enabling coordinators to efficiently moderate content, approve submissions, and maintain a unified directory of club events and resources.

 [COMPSA LLM Agent](#) | [in LinkedIn](#) |  200+

Python | FastAPI | PostgreSQL | OpenAI API

- Built and deployed COMPSA AI, a retrieval-augmented LLM agent answering Queen's Computing questions by aggregating course data, policies, and community resources into a centralized knowledge system.
- Engineered a FastAPI + PostgreSQL/pgvector RAG pipeline with OpenAI embeddings, semantic search, and automated PDF/website ingestion, enabling grounded 24/7 responses for Queen's Computing students.

Technical Skills

Languages: Python, TypeScript, JavaScript, HTML, CSS, SQL

Frameworks & Tools: React, Next.js, Node.js, Express, Flask, Tailwind CSS, React Native, Expo, LangChain, PostgreSQL, Git, Docker, AWS, Supabase, OpenAI API, REST APIs, Resend