

Bosco Ng

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EDUCATION

Queen's University

Bachelors (Honours) in Computer Science, Software Design Specialization

Kingston, ON

Sept. 2024 – May. 2028

EXPERIENCE

Backend Developer Intern

<https://lawtonica.ca/> - Lawtonica

May 2025 – Present

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

<https://compsa.ca/> - Queen's Computing Students' Association

April 2025 – Present

Kingston, ON

- Led a **14 member tech team** building and maintaining digital tools for **1,800+ students** at Queen's Computing, collaborating with COMPSA portfolios, faculty, professors, and the student community to deliver impactful, long-lasting products.
- Led the **3-week development** of a responsive **room booking system** for **500+ users**, featuring real-time availability, automated email reminders, and an admin panel for 24/7 study room access.
- Built and maintain COMPSA's website and digital infrastructure**, including Queen's Computing's **official e-commerce merch store**, academic resources hub, events calendar, and internal job board.

Lead Developer

<https://www.qweb.dev/> - Queen's Web Development

Jan. 2025 – May 2025

Kingston, ON

- Led a team of 4 developers in a **4-month agile sprint**, delivering a production-ready platform for a **600+ member student organization**.
- Represented the team at a **Demo Day**, presenting tech features and project outcomes to stakeholders & peers.

Software Engineer

<https://qtedt.ca/> - Queen's Themed Entertainment Development Team

Sept. 2024 – May 2025

Kingston, ON

- One of two software engineers leading QTEDT to qualify from **400+ participants** across **32 universities** in **North America** for the **2025 TMU Thrill Design Invitational**, advancing to **Universal Creative™**.
- Built full-stack systems including a **guest management platform** (Flask, SQLite, JS) with secure auth & real-time updates, and a **ride control platform** (Python, PyQt5) managing 19 carts with live tracking & safety.

PROJECTS

Room Booking System

Queen's Computing Students' Association

Aug. 2025 – Sept. 2025

- Built a full-stack room booking system** for **1,800+ students (500+ users)** using Next.js 14, Supabase, & Resend, with real-time availability, timezone-aware scheduling, double-booking prevention, and admin dashboard.
- Designed a secure PostgreSQL schema with RLS, triggers, and optimized indexes, plus RESTful APIs handling timezone conversions, conflict resolution, and automated email notifications for confirmations and cancellations.

Unified Scheduling Platform

QWEB Development Winter Sprint '25

Jan. 2025 – April 2025

- Delivered a **unified scheduling platform** for a **600+ member student organization**, combining Calendly- and LettuceMeet-style functionality during a **4-month sprint**.
- Engineered **dual booking workflows** for interviews and team meetings, featuring a calendar view, Express.js RESTful API with 15+ endpoints, PostgreSQL with Row-Level Security, and responsive Tailwind CSS UI.

TECHNICAL SKILLS

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

Frameworks/Libraries: React, Next.js, Node.js, Express, Flask, Tailwind CSS, Prisma (ORM), LangChain, PyQt5

Developer Tools: Git, AWS, PostgreSQL, Docker, REST API design, Redis, JWT authentication, OpenAI API