

# 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