# Bosco Ng

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## EDUCATION

**Queen's University**
Kingston, ON
*Bachelors (Honours) in Computer Science*
*Sept. 2024 – Jun. 2028*

## EXPERIENCE

**Director of Information Technology**
April 2025 – Present
*https://compsa.ca/ - Queen's Computing Students' Association*
*Kingston, ON*

- Lead a **10+ 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 **1,500+ users**, featuring real-time availability, automated email reminders, and an admin panel for 24/7 study room access.
- Built and maintain the Computing Faculty's official merch store and COMPSA's website, an essential hub for students featuring faculty events, hiring opportunities, and academic resources.

**Lead Developer**
Jan. 2025 – Present
*https://www.qweb.dev/ - Queen's Web Development*
*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**.
- Won **1st place** in the QWEB 2025 Winter Development Sprint, outperforming **15 teams** and **75 participants**.
- Represented the team at QWEB **Demo Day**, presenting technical features and project outcomes to stakeholders and peers.

**Software Engineer**
Sept. 2024 – Present
*https://qtedt.ca/ - Queens Themed Entertainment Development Team*
*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™**.
- Developed a **full-stack guest management system** using **Python, Flask, SQLite, and JavaScript**, featuring an interactive HTML/CSS/Flask UI, secure authentication, live status tracking, and real-time updates for streamlined operations.

## PROJECTS

**Meeting Booking App - Queen's Web Development Winter Sprint 25'**
Jan. 2025 – April 2025
*Queen's Web Development*

- Built a JavaScript/ReactJS front-end with Radix UI, Tailwind CSS, Framer Motion, React Router for a responsive, accessible, and polished UI.
- Developed Node.js back-end with Date-FNS and Firebase authentication, enabling secure signup/login and real-time booking management for **600+ active users.**
- Delivered **unified scheduling** functionality inspired by **Calendly** and **LettuceMeet**, streamlining meeting and interview bookings into one platform.

**Ride Control System – TMU Thrill Design Invitational**
Jan. 2025 – April 2025
*Queen's Themed Entertainment Development Team*

- Designed and built a **Python (PyQt5)** ride control platform managing 19 carts across 6 scenes with real-time control, position tracking, maintenance routing, and 100% safety compliance via a **JSON-based** state persistence system.
- Delivered a functional demo in a **1-month sprint**, helping the team qualify from 400+ competitors and advance to Universal Creative™–hosted challenges in Safety/Accessibility & Novel Ride Design.

## TECHNICAL SKILLS

**Languages**: JavaScript (TypeScript-enabled), Python, SQL

**Frameworks**: Next.js 14, React 18, Node.js, React Router, Radix UI

**Libraries**: Tailwind CSS, Sass, axios, zod, moment, date-fns, Firebase, Framer Motion

**Developer Tools**: Git, Vite, DigitalOcean