

Bosco Ng

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EDUCATION

Queen's University
Bachelors (Honours) in Computer Science

Kingston, ON
Sept. 2024 – May. 2028

EXPERIENCE

Backend Developer https://lawtonica.ca/ - Lawtonica	Aug 2025 – Present Kingston, ON
<ul style="list-style-type: none">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
<ul style="list-style-type: none">Lead 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 – April 2025 Kingston, ON
<ul style="list-style-type: none">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 technical features and project outcomes to stakeholders & peers.	
Software Engineer https://qtedt.ca/ - Queen's Themed Entertainment Development Team	Sept. 2024 – July 2025 Kingston, ON
<ul style="list-style-type: none">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 <i>Queen's Themed Entertainment Development Team</i>	Aug. 2025 – Sept. 2025
<ul style="list-style-type: none">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 <i>Queen's Web Development</i>	Jan. 2025 – April 2025
<ul style="list-style-type: none">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