Bosco Ng

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Education

Queen's University　　　　　　　　　　　　　　　　　　　　　　　　**Sept 2024 - May 2028**
Bachelor (Honours) in Computer Science | Software Design Specialization　　　　　　　　*Kingston, ON*

Work Experience

Backend Developer Intern　　　　　　　　　　　　　　　　　　　　**May 2025 – Present**
Lawtonica　　　　　　　　　　　　　　　　　　　　　　　　　　　*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　　　　　　　　　　　　　　　**April 2025 – Present**
Queen's Computing Students' Association　　　　　　　　　　　　　　　*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, & student community to deliver impactful, lasting products.
- Built and maintained **COMPSA's Website** ↗ and **digital infrastructure**, including an academic resources hub, live events calendar, internal job board, photo gallery page.
- Directed **5 major projects** accumulating **7800+ users**, to improve student life including a **Mobile App, 24/7 Room Booking Platform, E-Commerce Merch Store, Computing Clubs Hub.**

Lead Software Engineer　　　　　　　　　　　　　　　　　　　　**Jan 2025 – May 2025**
Queen's Web Development　　　　　　　　　　　　　　　　　　　　*Kingston, ON*
- Led a team of 4 developers in a **4-month agile sprint**, delivering a production-ready **Calendar Booking Platform** ↗ for a **600+ member student organization**.
- Represented the team at a **Demo Day**, presenting tech features and project outcomes to stakeholders & peers.

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 React Native App | ⌂ *Source*　　　　**React Native | Expo | Typescript | Express**
- Developed a **cross-platform Expo/React Native app** that centralizes core COMPSA resources including room booking, announcements, academics, FAQs, featuring a dashboard, sorted announcements, and polished mobile UI/UX.
- **Supabase-backed data** layer & TypeScript **Express API** supporting search, auth, and content management for FAQs, announcements,contact flows, using secure client storage & a scalable service architecture to ensure usage.

⌘ Unified Scheduling Platform | 👥 *600+*　　　　　**React | Express.js | PostgreSQL | AWS**
- Delivered a unified scheduling platform for a 600+ member club integrating Calendly- and LettuceMeet-style workflows with a calendar view, an Express.js RESTful API (15+ endpoints), PostgreSQL RLS, & a responsive Tailwind CSS UI.

Technical Skills

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

Developer Tools: Git, AWS, Supabase, Resend, PostgreSQL, Docker, REST API design, OpenAI API

Libraries/Frameworks: React, Next.js, Node.js, Express, Flask, Tailwind CSS, React Native, Expo, LangChain