

Nick Shum

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EDUCATION

University of Waterloo

Candidate for BAsC in Computer Engineering; Cumulative GPA: 3.3

Apr. 2027
Waterloo, ON

SKILLS

Languages: TypeScript, JavaScript, Java, C++, Python, SQL

Frameworks/Libraries: Express.js, Node.js, Spring Boot, Django, Next.js, React, Vue.js, Vuex, Bootstrap, TailwindCSS, Framer Motion

Tools: Git, Figma, Atlassian, AWS, Hibernate, Firebase, Vercel, SQLite, MS SQL Server, Postman

EXPERIENCE

Full Stack Developer

CI Technologies

Sept. 2023 - Dec. 2023

Vancouver, BC

- Developed **RESTful** APIs with **Spring Boot** following the **MVC** architecture to facilitate communication between frontend and backend systems, currently in use by over **950+** police agencies across North America
- Implemented a query filter model to optimize data retrieval from Microsoft SQL Server using tailored **Hibernate** queries, resulting in a **20%** reduction in database response time
- Streamlined client-side **state management** in **Vue.js** through leveraging **Vuex** standards, optimizing API requests for improved application responsiveness

Quality Assurance Analyst

EllisDon

Jan. 2023 - Apr. 2023

London, ON

- Successfully tested and deployed multiple software tools using **Jira**, boosting company-wide efficiency and productivity
- Collaborated with cross-functional teams following **Agile Scrum** methodology, contributing to the delivery of high-quality software products and the enhancement of quality processes

PROJECTS

🔗 ResuMatch - Job Application Manager, Firebase, AWS S3, React, Django, SQLite

Oct. 2023

- Developed a job search web application, enabling users to create accounts, track job applications, and seamlessly link uploaded resumes to specific positions for enhanced job search management
- Protected user routes and data by seamlessly integrating **Firebase** Authentication with **React** frontend and **Django** backend, ensuring secure access and robust data privacy
- Integrated **AWS S3** with **SQLite**, implementing encryption and access controls for enhanced data security in a Django ORM-designed relational database

🔗 SpotiTrack - Spotify Tracker, Spotify API, Next.js, Express, Node.js, TailwindCSS

Mar. 2023

- Implemented robust data fetching mechanisms using **Express** to retrieve user data from the **Spotify API**, optimizing the application's responsiveness and real-time personalized features
- Protected user authentication adhering to the **OAuth 2.0** protocol, to ensure a secure login process for users through their Spotify accounts
- Employed **Next.js** and **TailwindCSS** to display users' top tracks and artists, creating a visually appealing and responsive user interface that enhances overall user experience

🔗 Personal Website, Next.js, TailwindCSS, Framer Motion, Figma

Feb. 2023

- Crafted a compelling portfolio using **Figma**, emphasizing user-friendly navigation and an intuitive layout to maximize the impact of the design
- Leveraged the server-side rendering capabilities of **Next.js** to improve website performance and **SEO**, leading to a faster and more discoverable website
- Established a GitHub to Vercel **CI/CD pipeline** to optimize production build deployment, resulting in increased efficiency and reliability