

Allen Nguyen

COMPUTER ENGINEERING CO-OP STUDENT · UNIVERSITY OF BRITISH COLUMBIA

🏠 allen-nguyen.com | 📧 allendnguyen | 📞 (778) 392-5518 | ✉️ allennguyen415@gmail.com | 📱 allennguyen01

Education

University of British Columbia (UBC)

Vancouver, BC

Bachelor of Applied Science in Computer Engineering

Expected Graduation: April 2026

- CGPA: 3.85 | Dean's List Recipient | BC Achievement & District/Authority Scholarships
- Coursework: Data Structures & Algorithms, Object-Oriented Programming, Web Applications, Applied Machine Learning, Relational Databases, Cybersecurity, Operating Systems, Human-Computer Interaction, New Venture Design/Capstone

Work Experience

Inverted AI

Vancouver, BC

Software Front-End Developer Co-op

Sep. 2024 - Present

- Developed data exploration web app tool in **Next.js**, **TypeScript**, and **Redux** to visualize full extent of training and test data for autonomous vehicle AI models, standardizing the method for data visualization and optimizing data engineering tasks
- Implemented interactive **React** components with **CSS** styling designed on **Figma**, improving workflow efficiency and user task success
- Increased data validation coverage by 50% for data processing pipeline with an automated reminder system using **Node.js** and **Slack API**

Voronoi Health Analytics Inc.

Vancouver, BC

Software Engineer Co-op

Sep. 2023 - Dec. 2023

- Addressed 25+ crucial tickets for AI-based medical image processing software resulting in **2 major software releases** that improved back-end functionality, front-end visualization, and QA using **C++**, **Python**, and **Electron** complete with detailed user documentation
- Deployed and refactored 40% of **C++** and **Qt** codebase with an Agile team to increase scalability and developer experience

UBC Launch Pad

Vancouver, BC

Software Developer

Sep. 2023 - Apr. 2024

- Built a seizure tracking mobile app with **TypeScript**, **Expo**, and **React Native** to monitor condition progression for people with epilepsy
- Led a team of **10 developers/designers**, managing stakeholder communication and project timelines leading to successful product launch
- Developed **Node.js** RESTful API and secure **Firebase** medical data storage tested with **Jest**, resulting in faster data retrieval times

British Columbia Investment Management Corporation (BCI)

Victoria, BC

Software Engineer Co-op

Sep. 2022 - Dec. 2022

- Created full-stack web application in **HTML**, **Bootstrap**, and **JavaScript** to improve documentation search efficiency and workflows
- Constructed relational database on **MS SQL Server** to catalog dynamic info on 250+ daily tasks in investment management software
- Performed exploratory data analysis on 10000+ data entries in XML and Excel to gather business insights using **Python** and **pandas**
- Tracked project issues, organized workflow, and maintained code documentation in **Jira** and **Confluence** as part of Agile team

Zen Maker Lab

North Vancouver, BC

Engineering Projects Instructor Co-op

Jan. 2022 - Aug. 2022

- Delivered on-site STEM classes focused on engineering and coding to 20+ schools and **500+ students** in Metro Vancouver area
- Launched a 30-hour educational summer camp on web design/development and teaching **HTML**, **CSS**, and **JavaScript**
- Educated students on computer science fundamentals with **Unity** and **C#** game development and **Arduino** robotics design

Projects

PeakFit (UBC Applied Science & Sauder School of Business Startup Project)

Vancouver, AB

🔗 Source Code - React Native, OpenAI, TypeScript, Express.js, Expo, TailwindCSS, Figma

Jan. 2024 - May. 2024

- Engineered **iOS/Android** app that creates personalized nutrition/workout plans based on user's goals/biometrics using **OpenAI's GPT-4**
- Developed a responsive frontend using **React Native** and **TypeScript** connected to a **RESTful API** backend constructed with **Express.js**
- Conducted **50+ user interviews** with business team to establish user-validated **Figma** prototypes and alpha testing

University of Calgary Chinese Students' Society Website (Web App)

Calgary, AB

🔗 Source Code - ReactJS, JavaScript, TailwindCSS, Chakra UI, Netlify

Aug. 2023 - Feb. 2024

- Developed a **React** web application to display info regarding club events and promote recruitment to **1000+ members**
- Built an intuitive user interface using **React** and **JavaScript** for seamless navigation and custom component modularity
- Employed UI/UX design with **TailwindCSS** and **Figma** to ensure consistent styling and responsiveness across various devices
- Deployed the website with **Netlify** and **Google Domains** to increase SEO and view user analytical trends

Skills

Programming Languages

JavaScript, TypeScript, Python, Java, C, C++, HTML, CSS, Ruby, Go, SQL, R

Developer Tools

Amazon Web Services, Git, Linux, Figma, Docker, Supabase, Postman, Axios, Jira

Frameworks/Libraries

Node.js, React.js, Next.js, React Native, Redux, Tailwind CSS, PostgreSQL, MS SQL Server, MongoDB, SQLite