Anh (Allen) **Nguyen**

COMPUTER ENGINEERING CO-OP STUDENT · UNIVERSITY OF BRITISH COLUMBIA

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Education

University of British Columbia (UBC)   *Vancouver, BC*

Bachelor of Applied Science in Computer Engineering   *Expected Graduation: April 2025*

- CGPA: 3.85, Dean's List recipient
- Relevant coursework: Data Structures and Algorithms, Object-Oriented Programming, Software Engineering and Construction, Applied Machine Learning, Web Applications, Relational Databases, Operating Systems, Cyber Security

Experience

Inverted AI   *Vancouver, BC*

Frontend Software Developer Co-op   *Sept. 2024 - Present*

- Developed responsive UIs for RESTful API demos using **React.js**, **HTML5**, and **SASS** cutting page load times by 300ms
- Implemented front-end features with **Next.js** and **TypeScript**, improving cross-device performance and reducing bugs by 15%
- Built and optimized data annotation tools with **Node.js** and **SQL**, reducing data processing times by 2 hours and streamlining workflows

Voronoi Health Analytics Inc.   *Vancouver, BC*

Software Engineer Co-op   *Sept. 2023 - Dec. 2023*

- Addressed 25 **GitLab** tickets for AI-based medical image processing software resulting in 2 timely major software releases that improved backend functionality, frontend output visualization, and QA using **C++**, **Python**, and **Electron** complete with detailed user documentation
- Deployed and refactored 20% of **C++** and **Qt** codebase with an Agile team to increase scalability and developer experience

British Columbia Investment Management Corporation (BCI)   *Victoria, BC*

Software Engineer Co-op   *Sept. 2022 - Dec. 2022*

- Created full-stack web application to improve internal work efficiency by 30% using **HTML**, **Bootstrap**, and **JavaScript**
- Formulated a relational database on **SQL Server** to catalog dynamic info on over 250 tasks in investment management software
- Performed exploratory data analysis on over 10000 data entries in XML and Excel format to be stored in database using **Python** and **pandas**
- Tracked project issues, organized workflow, and maintained code documentation as part of Agile team using **Jira** and **Confluence**

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 across 20 schools to over 150 students in Metro Vancouver area
- Launched a 30 hour long educational summer camp on web design and development with **HTML**, **CSS**, and **JavaScript**
- Educated students on computer science fundamentals with **Unity** game development and **Arduino** robotics

UBC WasteNauts   *Vancouver, BC*

Renewable Energy Team Lead   *May 2021 - May 2022*

- Designed and created a sustainably-built floor tile that harvests piezoelectricity from foot traffic
- Managed a team of 10 engineering students to conduct research and perform prototype development using standard lab equipment
- Modeled 10 different 3D prototypes on SolidWorks and executed rigorous laboratory tests to identify the ideal physical prototypes
- Constructed detailed technical reports on engineering design and presented it to fellow team members and environmental researchers

Projects

PeakFit (New Venture Design Project)   *Vancouver, AB*

 Source Code - React Native, OpenAI, TypeScript, Express.js, Expo, TailwindCSS, Figma   *Jan. 2024 - May. 2024*

- Engineered a mobile app that generates personalized nutrition/workout plans based on user's goals and 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 over **50 user interviews** with business team members 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 website to display information regarding club events and community engagement resources to **over 150 members**
- Built an intuitive user interface using **React** and **JavaScript** for seamless navigation and custom component modularity
- Employed UI/UX design with **TailwindCSS** and **Chakra UI** to ensure consistent styling and responsiveness across various devices
- Deployed the website with **Netlify** and **Google Domains** to increase SEO and view analytical trends

Skills

Languages	JavaScript, TypeScript, Python, Java, C/C++, HTML/CSS, SQL, R, Verilog, ARM Assembly
Developer Tools	Git/GitHub, Linux/Unix, Jira, Confluence, VS Code, Eclipse, IntelliJ, SQL Server, MongoDB
Frameworks/Libraries	Node.js, React, React Native, Express.js, Bootstrap, Tailwind CSS, PyTorch, pandas, scikit-learn, NumPy