

BRANDON CHAN

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WORK EXPERIENCE

Arista Networks

Incoming Software Engineer Intern – EOS Network Operating Systems Team

May 2026 - Aug 2026

Vancouver, BC

CanAI Garage - Public Services and Procurement Canada

Machine Learning Software Engineer Intern

Sep 2025 - Dec 2025

Vancouver, BC

- Designed and shipped a **FastAPI** microservice for model inference (image/video and tabular use cases), containerized with **Docker** and deployed to **Kubernetes/OpenShift**; added health checks, request validation, and structured logging for production readiness
- Operationalized models with **ONNX Runtime/PyTorch** + async batching, returning JSON results with calibrated confidence scores; added request-level SLOs and reduced p95 latency by **75%**
- Containerized 5+ backend services with **Docker** and deployed them on a **Kubernetes** cluster, with a **99%** uptime

Excelar Technologies

Software Engineer Intern

Sep 2024 - Apr 2025

Vancouver, BC

- Redesigned the visualization of **Careflow** datasets utilizing CDK and TanStack libraries, optimizing load times by **75%**
- Developed and implemented a virtualization algorithm for displaying AI marketplace models using **Angular**, **PostgreSQL** and **AWS S3** deploying features with **Jenkins**, creating an application similar to HuggingFace
- Developed and deployed redesigned **Careflow** timeline implementing **D3 JS** framework reducing scrolling latency by **50%**
- Designed and implemented tools API client streamlining all front-end API calls, reducing memory allocation and storage by **25%**

Lantronix Inc

Junior Programmer

May 2021 - Sep 2021

Vancouver, BC

- Wrote and implemented **Python** scripts for training and testing Open-Q Development Kits, streamlining the implementation process and reducing pairing times by **50%**

PROJECTS

IceVision | Python, YOLOv10, Ultralytics, ONNX, FastAPI, Docker, AWS ECS Fargate, CloudFront, React, NextJS, Vercel

- Fine-tuned **YOLOv10** object detection model using **Ultralytics** to recognize hockey players' positions achieving up to **90%** recall
- Exported trained model to **ONNX** and deployed a **FastAPI** inference service, containerized on **Docker** and hosted on **AWS ECS Fargate** instance, fronted by an Application Load Balancer and **CloudFront** for HTTPS access
- Developed a front-end in **Next.js/React** (deployed on **Vercel**) that lets users upload or preview videos and visualizes detections with overlayed bounding boxes.

Typele | React, Express.js, Node.js, MongoDB, Vercel, Socket.IO, Google Cloud Platform

- Developed a full-stack typing website using **React**, allowing users to progress through levels, track high scores and leaderboards, buy cosmetics, and battle other players in real-time typing battles
- Implemented **Socket.IO** web-sockets allowing for seamless communication between multiple players simultaneously
- Routed backend APIs using **Axios** implementing **MongoDB** database and deploying project with **Google Cloud Platform** and **Vercel**

PayTrack | VueJS, Firebase, PostgreSQL

- Developed an invoice tracking web-application using **VueJS** to help users manage invoice statuses
- Configured and deployed application using **Vercel** and **Firebase**

Factory Escape | Java, Swing, HTML

- Designed and developed a 2D Java-based game using **Swing** for GUI rendering and game loop control
- Implemented unit and integration tests covering every individual aspect and behaviour of the game's characters and objects

EDUCATION

Simon Fraser University

Expected Graduation Apr 2027

Bachelor of Science, Computer Science

3.92/4.33 CGPA

Courses: Data Structures and Algorithms, Database Systems, Software Engineering, Computer Systems, Artificial Intelligence

Awards: Mark and Nancy Brooks Computing Innovation Award, SFU Undergraduate Open Scholarship (x3), SFU Alumni Scholarship

SKILLS

Programming Languages: Swift, Kotlin, Java, JavaScript, TypeScript, C, C++, Python, x86, HTML, XML, SQL, Haskell, Rust, Julia

Frameworks/Libraries: React, SwiftUI, Angular, Next.js, Express.js, Node.js, Vue.js, Mongoose, Tailwind

Developer Tools/Technologies: Git, Docker, AWS, Linux, MySQL, PostgreSQL, NGINX, Postman, Jira, PyTorch, MongoDB, Firebase

Interests: YouTube (100,000 subscribers) 🎬, Skiing, Snowboarding, Hockey, Fitness, Chess, Hikes