

# Tayyib Chohan

tayyibchohan@gmail.com | [tayyibchohan.com](http://tayyibchohan.com) | (604) 722-7863 | [linkedin.com/in/tayyibc](https://linkedin.com/in/tayyibc)

## EDUCATION

---

University of British Columbia

Expected Graduation - April 2025

*Bachelor of Applied Science - Computer Engineering*

**Relevant Courses:** Intermediate Data Structures and Algorithms, Machine Learning and Data Mining, Databases, Software Construction I, Computing Systems II, Operating Systems,

## TECHNICAL EXPERIENCE

---

Korotu Technology Inc, Toronto, ON

May 2023 - Present

*Software Engineer Co-op*

- Set-up django unit testing for a REST API used to track grassland vegetation to protect birds across Prince Edward Island

Trulioo Information Services Inc, Vancouver, BC

May 2022 - Aug 2022

*Software Engineer Intern*

- Implemented **TypeScript**-based functional **React** components with custom react hooks and contexts to build a scalable and maintainable frontend application, and used the **jest** testing framework to ensure reliable performance.
- Integrated logic for data parsing and language-aware search in **C# ASP .NET** these projects, significantly increasing search accuracy for inputs in multiple languages

UBC Uncrewed Aerial Systems, Vancouver, BC

Sept 2020 - Present

*Payload Team Lead and Advisor*

- Led a team of 20 engineering students to design and build five mechatronic projects for intercollegiate competitions, resulting in improved team performance and increased recognition for the university
- Developed an autonomous rover and winch system using **C++**, **Arduino**, and **PlatformIO** to navigate to specific GPS coordinates and deliver a water bottle, ranking 15th out of 71 teams globally
- Designed and built a rover that delivers and scans medical packages using **embedded C** and rapid prototyping techniques, finishing 2nd in the first phase of a national competition

eXomoonAI, Remote

Feb 2020 - March. 2020

*Freelance Web Developer*

- Designed and implemented a modular site-wide tutorial interface using the IntroJS web framework to provide users with an intuitive and user-friendly learning experience.
- Collaborated with stakeholders to guide and revise a production-ready project, ensuring timely delivery and meeting all requirements

## PROJECTS

---

IoT Alarm System, UBC

March 2022 - April 2022

- Created a **ReactJS** front end with effect hooks to send HTML POST requests
- Created an **ExpressJS**-based **RESTFUL API** to handle POST, and GET requests from 5 endpoints
- Configured **NGINX** to reverse proxy to a backend server

FireSpy, Personal Project

Sept 2019 - April 2020

- Trained an image recognition network based on the Yolov3 algorithm to detect images of fire
- Labelled over 300 images and used **Google Collab** and **Jupyter** to train a custom neural network
- Used **OpenCV** to interface with the image recognition network and control a consumer drone
- Contacted firefighters, MPs, and MLAs, to create specification criteria and determine viability

EduGrade, Hackathon

Nov 2019

- Designed a spreadsheet-based database with **Google Cloud** Python APIs
- Deployed a python project as an easy-to-use executable with a GUI through **Tkinter**
- Created, debugged, tested, and deployed code in a fast-paced development environment

Unity Android App, Personal Project

June 2018 - Aug 2018

- Created a highly rated android game with **Unity**, **Visual Studio**, and **C#**
- Managed an Android application throughout its life cycle with Google development tools

## SKILLS

---

**Software:** ASP .NET, AWS, Bash, C#, C++, GCP, Git, Java, LAMP, MySQL, Python, ReactJS, TypeScript, Unity