Justin Aujla

2A Computer Engineering, University of Waterloo

// Experience

Teranet Inc. // Software Engineering Intern

- Designed, and built unit testing infrastructure to replace neglected manual testing and improve code quality using **TypeScript**, **Karma**, and **Jasmine**.
- Created scripts to sync shared assets between AngularJS and Angular 10 web app to streamline tech stack transition using **C#**, **Python**, **BASH**, and **Git Hooks**.

VirtaMove // Software Engineering Intern

- Architected the end-to-end data collection, processing, and user interface generation pipeline for log data using C# and HTML with Blazor and SignalR; created on-the-fly log level control using JavaScript, and SASS user interface.
- Methodically and extensively completed 160+ manual test cases, spearheaded 3+ new test suites, and modified 15+ test cases to improve testing accuracy.
- Lead the implementation of authentication and authorization in **.Net 3.1** for a server migration web app to improve client security.

B.C. Tech for Learning Society // Hardware Technician Jun – Sept 2019

• Refurbished 25+ personal computers (PC) and diagnosed 250+ pieces of PC hardware within a strict 3-week deadline; a fast-paced environment, working on up to 3 PCs at a time.

Waterloo Hyperloop Team // Motor Control Lead Sept 2019 – Present

- Leading team of 10+ engineering students from various disciplines on a mission to develop a motor controller to demo a full-scale <u>Hyperloop ^[]/2</u> by 2025.
- Organizing an intercollegiate forum for the advancement of non-contact propulsion, guidance, and suspension systems.

Catrobat // Open-Source Software Developer

// Projects

Ask-Q 🗹

JavaScript, NodeJS, WebSocket, Google Cloud

• Created a real-time question platform to simplify student-professor communication during live lectures using **WebSocket**, **Google Cloud**, and a web dashboard to send and upvote questions.

House Search ^亿

JavaScript, HTML, CSS, Python, RESTful APIs

- Designed and developed the front-end of a sentiment based real estate platform.
- Decreased latency by 15% by overhauling redundant and error-prone multivariable distance and sentiment algorithm in **Python**.

Mr. Postman 岱

Java, C++, Python, Apache 2, Firebase, Postman, BASH

• Spearheaded development the first IoT enabled biometric smart mailbox to mitigate mail theft using Apache 2, Android studio, Arduino, and Raspberry Pi's.

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// Skills

Languages

- TypeScript, HTML, and CSS
- C#, C++, and Java
- VHDL, Python and MATLAB

Frameworks

- Angular, Jasmine, and Node.js
- .NET Core, and Blazor

Tools

- Git, BASH, Unix, VirtualBox, Azure DevOps, and Postman
- Firebase and Google Analytics
- Altium, LTSPICE, and PSIM

// Achievements

Horatio Alger National Entrepreneurial Scholar // 2019

 Presented to 10 Canadian Students who exhibit exceptional academic success, desire and ability to be entrepreneurial, deep involvement in co-curricular and community service activities, and display integrity and perseverance in overcoming adversity.

Winner at nwHacks // 2019

• Chosen out of 130+ teams for the "Most Innovative Home Buying Experience" prize.

// Activities

Boys4Real ☑ // Program Leader

Jun 2014 – Present

 Inspired 200+ youth to appreciate themselves and live healthy; taught time management, conflict resolution, and community service.

Aujla Labs // Founder

Sept 2018 – Present

• Designing tech to make the world accessible for people of all abilities.

Free Geek 岱 // Volunteer

Jun 2016 – Present

Sept – Dec 2018

Jan – Jan 2021

Jan – Jan 2019

Dec 2018 - Apr 2019

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Sept – Dec 2020

Jan – Apr 2020