**Martin Au-Yeung**

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**EDUCATION**

**University of British Col****umbia** **Expected Graduation: May 2023**

**BSc. Combined Major in Computer Science**, Life Sciences, Earth & Ocean Sciences – Biology major student before 2020

**SKILLS­­**

**Programming Languages:** TypeScript, JavaScript, Python, Java, C++, C, SQL, Dart, HTML, CSS

**Tools and Frameworks:** React, Node.js (Express, Passport), MySQL, Firebase (NoSQL), Flutter, GCP, AWS, Docker, Git

**EXPERIENCE**

**BlackBerry September 2021**

*Incoming Software Engineer Intern* *Remote – Waterloo, Ontario*

* Will be working on the IPG Cloud and Automation Team to migrate Ruby on Rails system to Go

**Hölmetrics May 2021 – Present**

*Software Engineer Intern­­­**Remote – Calgary, Alberta*

* Created from scratch and deployed to stakeholders on AWS EC2, React and Node.js in-house improvement of

company’s flagship product, 50% ahead of schedule, eliminating 3rd party company costs ($70 per client to $0)

* Architected SSO authentication system with JIT provisioning to save user login time by 150% and reduced initial

customer onboarding time by 100%, by removing the need for users to authenticate into 2 platforms separately

* Developed question limit and progress tracking features for full-stack wellness app to first major customers within

my 1st week of starting, achieved by maintaining a swift development pace and without working overtime

* Went beyond intern responsibilities by facilitating hiring for full-time software engineers, trusted by managers to

generate challenging technical questions to screen and express hiring recommendations for 2 final-round candidates

**UBC Science Undergraduate Society July 2020 – May 2021**

*Web Developer**Vancouver, British Columbia*

* Ideated and redesigned Society’s webpage UI for better accessibility to 8300+ UBC Science students in 2019
* Took personal initiative to lead a React framework transition to decrease site loading times by 500% (10 sec to 2 sec)
* Optimized Security Headers in PHP and migrated site to HTTPS to increase overall site security grade from a D to a B

**PERSONAL PROJECTS**

**hubble**

***Top 3 Best in Show Project @ Google Cloud Demo Week • Google Cloud COVID-19 Hackathon Fund ($5000 & Mentor)***

* Led team of 5 in developing a full-stack, social connection app for Android and iOS, 10 months after starting CS major
* Designed and constructed a serverless data scoring algorithm to suggest compatible friends using NLP entity analysis
* Ideated UI on Figma and single-handedly built front-end application with friend connection and messaging system
* Applied data caching solutions discussed with Google Software Engineer mentor to save GCP usage costs by 200%
* Live Demo to Google: <https://youtu.be/-GaKWMUCaaM?t=4511> Event Link: <https://goo.gle/GoogleCloudDemoWeek>

**ML-based Predictive Modeling of COVID-19 Vaccination Uptake**

***Hoffmann-La Roche Research Solution Awards – 3rd Prize ($400)*** ***• Top 15 Finalist out of 150+ teams***

* Collaborated in a team of 4 to create an ML/AI research manuscript for the 2021 Big Data Undergraduate Challenge
* Implemented XGBoost ML algorithm in Python to predict COVID-19 vaccination uptake with 59% test accuracy
* Generated choropleths in Python to highlight US counties with abnormally low vaccination rates and identified the

top 10 key sociodemographic factors out of 70+ that drive personal decisions to receive the COVID-19 vaccine

* Worked closely with a York University professor to prepare manuscript for publication in a scientific journal (JMIR),

in charge of writing 40% of the manuscript to communicate key findings based on methods and results effectively

**Statstify**

* Created an interactive CRUD React web-app to present Spotify users listening statistics to peak 120 monthly users
* Devised and developed an individualized recommendation algorithm to suggest “throwback” songs to users
* Implemented features to allow users to create playlists based on displayed statistics and share them on social media

**TripSuite**

* Collaborated in a 24hr hackathon team of 4 to create a travel planner using MongoDB, Express, React and Node.js
* Created user authentication system using Passport and BCrypt to allow for multi-user support and increased security
* Constructed Express server and created Axios API calls to allow data from user input to be saved on NoSQL database