**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

**EXPERIENCE**

**LinkedIn September 2022**

*Incoming Software Engineer Intern* *Sunnyvale, California, USA*

* Will be interning on the ML Infrastructure – Model Pipeline Infra Team using Python and Scala

**BlackBerry September 2021 – Present**

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

* Designed and implemented both cloud cluster and capacity report microservices in Go with algorithmic and data

structural changes to improve performance over pre-existing version by 134% (- 860ms), 25% ahead of schedule

* Optimized a cloud computing microservice to improve multiple endpoint query response times by 40% (-127 ms)
* Constructed brand new data storage (3Par) microservice by creating an automated data upload and query service
* Led internal customer demos and oversaw production rollout of all 10 of my individually created microservices
* Mentored and assisted new interns on company software engineering practices and code quality improvements

**Hölmetrics May 2021 – August 2021**

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

* Constructed from scratch, improvement of company’s flagship product using React, Node.js and SQL, 50% of the

scoped time and deployed to customers on EC2 to eliminate 3rd party company costs ($70 per client to $0)

* Architected SSO authentication system with JIT provisioning and created REST API endpoints in Axios to handle

authentication requests, reducing user login time by 200% (15 sec to 5 sec) and customer onboarding time by 100%

* Developed question limit and progress tracking features for React and SQL 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 – April 2021**

*Web Developer**Remote - Vancouver, British Columbia, CAN*

* Ideated and led redesign of Society’s webpage UI and UX for better accessibility to 8300+ UBC Science students
* Went beyond role to lead a React framework transition that decreased site loading times by 400% (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

**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
* 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 Infodemic Research Solution Awards – 3rd Prize ($400)*** ***• Top 15 Finalist @ unBDC out of 150+***

* Published in scientific journal JMIR (Impact Factor: 5.43) ([doi.org/10.2196](file:///C:\Users\Martin\Downloads\10.2196\33231)), led writing of methods and results
* Implemented XGBoost ML algorithm in Python to predict COVID-19 vaccination uptake with 62% test accuracy

**Statstify**

* Created an interactive CRUD React web-app to present Spotify users listening statistics to peak 120 monthly users

**SKILLS­­**

**Languages:** Go (Golang), Python, TypeScript, JavaScript, Java, C++, C, SQL, Dart, Ruby, HTML, CSS

**Frameworks & Libraries:** React, Node.js (Express, Passport, TypeORM), Flutter, Next.js, Swing, Tailwind, Gin, GORM

**Tools/Tech:** Git, Linux, Heroku, Firebase, GCP (Compute Engine, NLP, Cloud Functions), AWS (EC2, Redshift), Docker