

Martin Au-Yeung

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EDUCATION

University of British Columbia

BSc. Combined Major in Science (Switched from Biology major in Jan 2020)

September 2017 - June 2023

Vancouver, BC, Canada

EXPERIENCE

LinkedIn

Software Engineer Intern, Machine Learning Infrastructure

January 2023 – April 2023

Sunnyvale, CA, USA

- Received **2+ internal awards & highest performance rating (top 10%)** for outstanding execution & impact
- Reduced machine learning training job debugging time from 10+ hours to just minutes by creating the first Go native Kubernetes core dump handler in 50% of the scoped time
- Improved core dump capture and persistence time to instantaneous through Linux kernel interface improvements
- Designed secure core dump storage solution on Ambry from scratch to allow long-term persistence of core dumps
- Received strong interest to open-source project by Google, Nvidia, Uber, Airbnb, and other prestigious companies

BlackBerry

Software Engineer Intern, Cloud Infrastructure

September 2021 – April 2022

Waterloo, ON, Canada

- Led end-to-end creation of cloud infrastructure REST API microservices using Golang, resulting in a 134% performance improvement over pre-existing Ruby on Rails version, completed in 25% of the scoped time
- Championed internal customer demos and oversaw launch of all 10 of my individually created microservices
- Led mentoring for new interns on software engineering practices to foster a culture of excellence within the team

Holmetrics

Software Engineer Intern

May 2021 – August 2021

Calgary, AB, Canada

- Generated \$100K+ in revenue by creating from scratch company's flagship dashboard product using React
- Eliminated 3rd party company costs (\$70 to \$0) by deploying dashboard product to first paying customers
- Architected SSO authentication system with JIT provisioning to reduce user login time and onboarding by 200%
- Trusted by team to lead and conduct technical/behavioural interviews for full-time software engineers

UBC Science Undergraduate Society

Web Developer

July 2020 – April 2021

Vancouver, BC, Canada

- Decreased site loading times by 400% (10 sec to 2 sec) by going beyond role to lead React framework transition
- Increased site security grade from D to B by optimizing PHP security headers and migrating the site to HTTPS

PUBLICATIONS

Cheong Q & **Au-Yeung M** et al. (2021) 'Predictive modeling of vaccination uptake in US counties:

A machine learning-based approach', Journal of Medical Internet Research, 23(11). doi:10.2196/33231.

- Awarded the **Hoffman-La Roche Infodemic Research Solution Award** for COVID-19 research contribution
- Co-first authored ML/AI research paper, solely responsible for technical implementation, methodology and results

PROJECTS

hubble

- Awarded **3rd Best in Show Project & Google Cloud COVID-19 Hackathon Fund (\$5000)**
- Created fully-functioning social connection app for Android and iOS using Flutter & Firebase
- Designed and built server-less data scoring algorithm to suggest compatible friends using NLP entity analysis

TECHNICAL SKILLS

Languages: Go (Golang), Python, C++, C, Java, TypeScript, JavaScript, HTML/CSS, SQL, NoSQL, R

Tools: Kubernetes, Linux Kernel, Docker, Google Cloud Platform, AWS (EC2, Redshift), Git, Azkaban, Ambry, Helm

Frameworks & Libraries: React, Node.js, SHAP, Scikit-Learn, NumPy, Flutter, TypeORM, Next.js, Gin, GORM