Martin Au-Yeung

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EDUCATION

University of British Columbia   **Expected Graduation: December 2023**

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

EXPERIENCE

LinkedIn   **September 2022 – Present**
Software Engineer Intern   *Sunnyvale, California, USA*
- Interning on the Machine Learning Infrastructure – Model Pipeline Infra team

BlackBerry   **September 2021 – April 2022**
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

Machine Learning 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: 7.08) (doi.org/10.2196), 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