Martin Au-Yeung

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EDUCATION

University of British Columbia   **Expected Graduation: November 2023**
BSc. Combined Major in Computer Science   *Vancouver, BC, Canada*

EXPERIENCE

LinkedIn   January 2023 – April 2023
Software Engineer Intern, Machine Learning Infrastructure   *Sunnyvale, CA, USA*
- Received highest performance rating (top 10% of intern class) for outstanding execution (18+ customers helped)
- Reduced machine learning training job core-dump debugging time from **10+ hours to just minutes** by developing a low-level Kubernetes core dump handler **in 50% of the scoped time**, receiving internal awards for the impact
- Decreased coredump capture and persistence time from seconds to near instantaneous by allowing multiprocessing
- Designed core dump storage solution from scratch to facilitate long-term persistence of core dumps and led security reviews to ensure secure storage of core dumps that contain highly confidential training job data on Ambry

BlackBerry   September 2021 – April 2022
Software Engineer Intern, Cloud Infrastructure   *Waterloo, ON, Canada*
- Led end to end creation of cloud infrastructure report microservices with algorithmic and data structural changes, resulting in a **134% performance improvement** over pre-existing version, completed in 25% of the scoped time
- Optimized a cloud computing micro-service to improve multiple endpoint query response times by 40%
- 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   May 2021 – August 2021
Software Engineer Intern   *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   July 2020 – April 2021
Web Developer   *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
- Ideated and led redesign of Society's webpage UI and UX for better accessibility to 8300+ UBC Science students

PUBLICATION

ML-based Predictive Modeling of COVID-19 Vaccination Uptake | *Hoffman-La Roche Research Solution Award*
- Co-first authored ML research paper published in JMIR (Impact Factor: 7.08), led writing of methods and results. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8623305/
- Achieved 62% prediction accuracy score of vaccination uptake by using XGBoost and Hyper-Parameter Tuning

PROJECTS

hubble | *Top 3 Best in Show Project @ Google Cloud Demo Derby, Google Cloud COVID-19 Hackathon Fund ($5000)*
- Created social connection app for Android and iOS, **sponsored by Google**, 5 months after beginning CS studies
- 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, JavaScript, HTML/CSS, SQL, R
Frameworks: React, Node.js, Flutter, Express, Passport, TypeORM, Next.js, Swing, Tailwind, Gin, GORM
Tools: Git, Kubernetes, Docker, Google Cloud Platform, AWS (EC2, Redshift), Helm