

Michael Wong

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Technical skills

- **Theoretical knowledge:** Data structures, complexity analyses, and advance algorithm design.
- **Languages:** Python, Java, Groovy, YAML, JSON, MySQL, CSS, HTML, Ruby, C++, R, and Latex.
- **Technologies:** AWS, Unix, Git, GitHub, GitLab, and Microsoft Visual Studio.

Transferable skills

- Ability to work effectively with colleagues from different disciplinary backgrounds.
- Ready to adapt and react to changing responsibilities and expectations.
- Able to present and explain my ideas and projects to large audiences.
- Highly driven with a persistent work ethic to achieve long-term goals.

Work Experience

Associate software engineer, Amgen

2019 - present

- Applied **agile software development** to ensure continuous delivery of software releases.
- Coordinated scrum ceremonies including sprint planning, sprint retro, daily scrums, and scrum demos as a **scrum master**.
- Developed and built a **cloud-based, serverless, and highly scalable** workflow solution that utilized **AWS, Docker, and Nextflow**. This allowed users to transform and run large scale genomics analyses in parallel.
- Supported and maintained an application that is critical for mitigating safety risks for research projects by resolving problems around **Kubernetes, Oracle database, and CI/CD pipelines**.
- Acted as the **IS safety representative** to communicate safety concerns and hazards to the safety committee.
- Mentored and worked with Co-op students to familiarize them with projects and Amgen work environment.
- Cultivated healthy relationships with coworkers to maintain a positive working environment for everyone.

Education

BSc. | University of British Columbia, Vancouver, BC

May, 2019

- Combined Major in Computer Science, Microbiology, and Chemistry

Projects

DNS Resolver

2019

- A program written in **Java** that allows users to request different record types (IPv4, IPv6, CNAME, etc.).
- Robust encoder and decoder for DNS messages.

Personal website

2019

- Built with **CSS** and **HTML** creating special effects such as parallax scrolling.
- A responsive webpage that can adapt to different display dimensions.

The Effects of Temperature on the Oxygen Production of *Chlamydomonas reinhardtii*

2018

- Carried out **extensive literature research** for research proposal and journal article.
- Kept meticulous data and observations organized in a lab notebook.
- Scientific paper published in the UBC's **The Expedition**.

Global AI Hackathon 2017

2017

- Designed and built a program with **Python** that detects jokes from sentence data with machine learning.
- Responsible for data collection and data manipulation in preparation of supervised learning.

Identification of synthetic lethality partners (Research Experience Program)

2017 - 2018

- Applied molecular biology techniques to experimental design.
- Utilized **R** to generate hypothetical data and graph.
- Presented the poster at the 2018 Multidisciplinary Undergraduate Research Conference.

Extracurricular activities

Noons Creek Hatchery

2007 - 2014, 2017 - 2020

- Maintained proper conditions for salmon survival at various life stages.
- Analyzed water samples in the laboratory for different parameters.