

Michael Wong

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Technical skills

- **Theoretical knowledge:** Data structures, complexity analyses, and advance algorithm design
- **Languages:** Python, C++, Java, CSS, HTML, Ruby, MySQL, R, and Latex
- **Technologies:** Microsoft Visual Studio, Linux, IntelliJ, CLion, PyCharm, and GitHub

Transferable skills

- Ability to work effectively with colleagues from different disciplinary backgrounds
- Able to present and explain my ideas and projects to large audiences
- Highly driven and have persistent work ethic to achieve long-term goals

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

Lumohacks 2016

2016

- Cooperated in a group to design an application in **Java** that relates different medical conditions
- Designed the structure and wrote test cases to ensure the correctness of the program

Train station timetable and GPS tracking app

2015

- Completed an app using **Java** to display the train system in London
- Implemented a map with tube lines, stations, and user location
- Optimized selectable stations to show connected tube lines and arrival times

Work Experience

Deli Clerk, Safeway

2013 - 2014

- Communicated with customers clearly to resolve queries
- Sustained positive relationships with coworkers to increase productivity
- Remained calm and collected under a dynamic work environment

Extracurricular activities

Noons Creek Hatchery

2007 - 2014, 2017 - present

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