

# Alvin Cheung

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## SKILLS

\*in progress

**Languages:** Java, C, C++, Python\*, JavaScript, Assembly, HTML, CSS, MATLAB

**Frameworks:** React, Node.js, Docker\*, MongoDB, PostgreSQL, Express\*

## PROJECTS

**Groceries App – Recipes to ingredient** (Personal) May 2022

- Used a MERN stack to develop a RESTful web application that makes creating a shopping list easier.
- Hosted the database and backend code through a Docker Nginx proxy server on my home server.
- Currently adding authentication and additional functionalities such as importing and exporting recipes.

**Interrupt - Combat endless scrolling** (BCS Hacks) March 2022

- Created a Chrome extension that monitors time spent on a particular website and "interrupts" user after a set time.
- Implemented timer functionality using alarms in JS given the absence of the feature in the built-in API.

**GIFT - A registry for those in need** (nwHacks) January 2022

- Collaborated in a group of four to create a static web-based CRUD application using JS.
- Created an interface for users to list needs with descriptions and links and allowed other users to pledge donations.

**Home Network and Server Development** (Unix Server) April 2020 - Present

- Transformed old computer to a home, web, and game server using Docker.
- Created a remote working environment for coding projects.
- Implemented enterprise grade networking equipment and configured VLAN and bandwidth protocols.
- Currently working towards hosting personal web development projects on this server.

## EXPERIENCE

**Software Development Intern** September 2022 – Present  
Demonware – Activision Blizzard

**Bachelor of Computer Science Program Tutor** May 2022 – August 2022  
The University of British Columbia – CS Department

- Tutoring over 100 students in the BCS program.

**Chemical Engineer in Training** May 2019 - July 2021  
Kemetco Research, Richmond

- Designed, built, and operated industrial pilot-plant scale metallurgical equipment for innovative processes.
- Interpreted upwards of 100 000 points of data and communicated findings for optimizations using VBA and Pandas.
- Collaborated under pressure in varying hazardous environments.

**Metallurgical Technician** January 2018 - August 2018  
Barrick Gold, Vancouver

- Carried out independent research experiments on cyanide alternatives and refined inhouse protocols.
- Analyzed data and wrote technical reports to provide recommendations to research clients.
- Developed experimental methods for the analysis of glycine, triiodide, and iodine for use as greener alternatives to conventional leaching.

## EDUCATION

**Bachelor of Computer Science** – 4<sup>th</sup> year standing (4.00 GPA) Expected graduation: 2024  
University of British Columbia • Vancouver, BC

**Bachelor of Applied Science in Chemical and Biological Engineering** (3.85 GPA) 2019  
University of British Columbia • Vancouver, BC