

# Chrysen Park

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## SKILLS

Java  
Python  
JavaScript  
SQL  
AWS  
REST APIs  
Spring Boot  
React.js  
Html, CSS

## EDUCATION

**UNIVERSITY OF  
BRITISH COLUMBIA**  
Integration of  
Computer Science and  
Environmental Science, B.Sc  
2015 - 2020  
Vancouver, BC

## COURSEWORK

Advanced Software Construction  
Algorithms and Data Structures  
Advanced Relational Databases  
Intelligent Systems  
Machine Learning and Data Mining  
Computer Graphics  
Sustainable Energy Policies  
Energy, Environment, and Society

## EXTRACURRICULAR

NW Hackathon Top 20  
Local Hack Day  
Internapalooza 2020  
Vice President of Environmental  
Science Students Association

## EXPERIENCE

### **JUNIOR SOFTWARE DEVELOPER | LIFE SCIENCES INSTITUTE**

September 2019 - May 2020 | Vancouver, BC

- Worked with a team to redesign existing Python scripts to be more efficient and systematic using workflow libraries
- Led the data collection and deployment of a data management system called OpenBis using Python, PostgreSQL, and a Linux operating system

### **RESEARCH SOFTWARE ENGINEER | INSTITUTE FOR RESOURCES, ENVIRONMENT AND SUSTAINABILITY**

May 2019 - September 2019 | Vancouver, BC

- Implemented an interactive mapping application that enhanced the visualization of specific types of air pollution in Canada
- Effectively utilized online documentation to self-learn R within two weeks
- Collaborated with professors and researchers weekly to meet project goals

### **TEACHING ASSISTANT | UBC COMPUTER SCIENCE DEPARTMENT**

September 2018 - January 2020 | Vancouver, BC

- Led labs of 30+ students weekly and communicated regularly with them throughout the week to answer questions
- Held office hours to assist students while solidifying my own debugging skills in the process

## PROJECTS

### **THE JAR BAR JAVA, SPRING BOOT, REACT.JS, AWS**

2020 - 2021

- **www.thejarbar.app** (Log in using Username: Demo, Password: demo)
- Built an interface where users can create their own accounts and create money jars which then can be renamed, donated to, withdrawn from or shared with other users
- Created a REST API integrated with a SQL database on AWS to store and receive calls from the frontend

### **COURSE FINDER TOOL TYPESCRIPT**

2019-2020

- Created a tool that parses through JSON/HTML files of college courses and can query specific courses based on chosen identifiers such as class average
- Ensured correct functionality for each step by writing extensive unit tests for each identifier and parser

### **HIPHOP-LANG PYTHON**

2019-2020

- Created an image processing DSL (Domain specific language) that can execute image transformations such as blur, dilate, outline, and crop given a typed out command (Ex. "Blur Cat.jpeg")

### **TRANSIT TRACKER JAVA**

2018-2019

- Programmed a public transit application that kept track of bus locations, times, stops, routes and the user's current location