

# 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

- Led the data collection and integration of a data management system called OpenBis which used Python, PostgreSQL, and a Linux operating system
- Restructured existing Python code using workflow libraries to be more efficient and systematic for the IT department

### **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
- Prepared the application to be demoed at conferences
- Effectively utilized online documentation to self-learn R and R shiny within two weeks

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

September 2018 - January 2020 | Vancouver, BC

- Led labs of 30+ students 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
- Graded approximately 500 exams a day after it was taken to meet institution deadlines

## PROJECTS

### **THE JAR BAR** Java, Spring Boot, AWS, React.js

- **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an interface where users can create their own accounts and create money jars which then can be renamed, donated to, withdrawn from or shared with other users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

### **HIPHOP-LANG** Python

- Created an image processing DSL (Domain specific language) that executes transformations such as blurring, eroding, dilating, outlining, cropping, and filtering through script commands

### **COURSE FINDER TOOL** TypeScript

- Created a tool that parsed through JSON and HTML files containing information on college courses and could query specific courses based on identifiers such as class average
- Ensured correct functionality for each step by writing extensive unit tests for each identifier and parser