

Chrysen Park

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SKILLS

- Java
- C++
- Python
- Javascript
- REST APIs
- React.js
- Node.js
- SQL
- AWS

EDUCATION

UNIVERSITY OF BRITISH COLUMBIA

INTEGRATION OF
COMPUTER SCIENCE AND
ENVIRONMENTAL SCIENCE, B.Sc,
September 2015 - May 2020
Vancouver, BC

COURSEWORK

Advanced Software Construction
Data Structures
Algorithm Design and Analysis
Relational Databases
Advanced Artificial Intelligence
Machine Learning and Data Mining
Computer Graphics
Sustainable Energy Policies
Energy, Environment, and Society

EXTRACURRICULAR

NW Hackathon Top 20
Local Hack Day
Internapalooza 2020
Completion of Udemy Online Machine
Learning Course
Vice President of Environmental Science
Students Association

LINKS

Github:// [chrysenpark](#)
LinkedIn:// [chrysen-park-57169514a/](#)
Personal Website:// [jchrysenpark.com](#)

OTHER

Dual Citizen: USA and Canada

EXPERIENCE

JUNIOR SOFTWARE DEVELOPER | LIFE SCIENCES INSTITUTE

September 2019 - May 2020 | Vancouver, BC

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

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 Vancouver, Montreal and Toronto
- Prepared the application to be demoed at a conference to help researchers visualize the current environmental injustices in certain regions
- Efficiently utilized online documentation to self-learn R and R shiny within two weeks

TEACHING ASSISTANT | UBC COMPUTER SCIENCE DEPARTMENT

September 2018 - December 2019 | Vancouver, BC

- Led labs of 30+ students, guiding them through specific coding challenges, communicating regularly with them throughout the week to answer questions
- Held office hours to assist students with certain topics/code, solidifying and enhancing my own debugging skills and knowledge in the process
- Graded up to 900 exams in a high time pressure environment to meet institution deadlines and allow optimal time for students to receive feedback and improve

PROJECTS

THE JAR BAR Java, Spring Boot, AWS, React.js, Node.js

- Created a REST API integrated with a SQL database on AWS in order to create a transparent and organized way of collecting money using jars.
- Built a interface using react.js where users can create their own accounts and create their own money jars which can be renamed, donated to, withdrawn from or shared with other users.
- <https://www.thejarbar.app/>

ANDROID TRANSIT APPLICATION Java

- Constructed a transit application using object oriented programming that kept track of bus locations, times, stops, routes and a user's current location
- Parsed through JSON files to gather information on each bus and displayed them in a presentable and user-friendly way

HIPHOP-LANG Python

- Created an image processing DSL (Domain specific language) that could execute transformations from string commands including blurring, gray scaling, eroding, dilating, outline, cropping, and filtering

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 a identifier such as class average, professor name, and course title
- Ensured correct functionality for each step by writing extensive unit tests for each identifier and parser