

Nichole White

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OBJECTIVE

Software engineering for an innovative technology company, leading to position advancement.

TECHNICAL SKILLS

Languages: Python, Java, C/C++, Assembly, R, VBA, PHP, SQL, HTML, CSS

Libraries and Tools: Pandas, Swing, Tidyverse, NumPy, Tkinter, Oracle

WORK EXPERIENCE

Membrane Research Scientist (Co-op | Intern), Ballard Power Systems Inc. Sep 2020- Sep 2021

- Extensive fuel cell assembly and testing for PEM optimization
- Designed various Python programs using Pandas library and developed VBA macros to automate and increase data processing efficiency, based on requests from team members
- Established techniques to improve fuel cell stack disassembly for undamaged MEA retrieval
- Trained new employees on constructing MEA's and fuel cell test station operation.

Field Technician (Co-op | Intern), E.S. Cropconsult 2018, 2019, 2020

- Made recommendations and efficacy assessments of chemical treatments; collaborated with supervisors and colleagues to establish daily duties; organized an archive of past assessments

Analyst (Part-time), Klean Industries 2019, 2020

- Sample collection and analysis of pyrolysis data; periodic written reports to highlight findings

TECHNICAL PROJECTS

Image Manipulator (Academic) - C++, Algorithms, Data Structures Spring 2022

- Uses a doubly linked list to represent image pixels; carves the image to reduce memory used
- Key strategies & tools: TDD, Debugging with VSCode, OOP, XFPT and XShell, BFS, DFS

Expense Tracker Desktop Application (Academic) - Java, JSON, JUnit Fall 2021

- Users can track their monthly spending habits; features include: adding entries, loading and saving data, viewing their history, and clearing the entry log
- Tools: TDD, JUnit testing, IntelliJ for debugging, OOP, UML diagram, GitHub, Java Swing

COMMUNITY INVOLVEMENT

Renal Unit and Patient Placement Volunteer, Royal Jubilee Hospital 2017- 2020

Support and Distribution Volunteer, Sources Food Bank 2017- 2020

Disaster Support Volunteer, Emergency Social Services 2017

Ambassador, White Rock Youth Ambassador Program 2014-2015

EDUCATION

Bachelor of Computer Science, University of British Columbia 2021- Present

BSc (Chemistry for the Medical Sciences), University of Victoria 2015-2021

REFERENCES

Available upon request