Stuart Molnar

I'm a **full-stack developer** with a focus on creating user-centric digital solutions. My strong foundation in web development and commitment to the details drive me to produce not only useful, but also intuitive products. With experience working on collaborative projects alongside UI/UX designers, I effectively integrate both creative and critical thinking throughout the development process.

Contact

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Education

Sep 2019 - Dec 2022
Diploma of Information Technology
British Columbia Institute of Technology

Skills

- HTML + CSS + JS
- React
- Python
- Node
- SQL

Work Experience

Jan 2023 - Present
Front-End Developer (Contract)
Rio Minerals Ltd. | https://riominerals.com | *Jan - Feb 2023*
Western Star Resources | https://westernstarresources.com | *Mar - Apr 2023*

- Developing visually appealing and modern websites for businesses in the mining industry, adhering to brand guidelines and utilizing HTML, CSS, JavaScript, React JS, and TailwindCSS
- Collaborating closely with a UI/UX designer to translate design concepts into functional, responsive, and visually appealing web interfaces, prioritizing design elements to deliver a seamless user experience in alignment with project goals

Feb 2023
Full-Stack Developer (Contract)
U.S. Department of Health & Human Services
https://github.com/StuartMolnar/usajobs-cors-proxy-server

- Developed responsive interface using HTML, CSS, JavaScript, and TailwindCSS
- Enhanced job search using filtering, validation, and USAJOBS API integration.
- Created CORS-proxy server with Python and Flask for USAJOBS API queries
- Containerized deployment using Docker on Linux VM and streamlined setup with initialization script and YAML configuration

Jun 2015 - Jan 2023
Geological Technician
Rio Minerals Ltd.

- Created Python tool to merge data collected by geological field crews, streamlining data management for the company
- Conducted geochemical and stream sediment sampling via helicopter and all-terrain vehicles, to inform mining operation decisions
- Utilized GPS technology and geological analysis to identify locations for future geological groundwork and drill locations

Projects

League of Legends NLP Chat Assistant
In Progress (https://github.com/StuartMolnar/league-nlp-chat)

- Developing a web app for tailored advice on champion matchups and strategies
- Leveraging OpenAI's GPT-3.5 chat, and GPT embeddings with Pinecone's vector database
- Collecting game data using Riot API with Python, web-crawling via Node.js and Puppeteer, and managing data in a SQL database
- Utilizing a containerized microservices architecture with Apache Kafka, FastAPI, and Docker for scalability and maintainability
- Building a user-friendly React front-end for a seamless user experience

Roster Scheduling Optimization
https://github.com/StuartMolnar/Whale-Optimization

- Utilized WOA and GA algorithms in a semester-long project to solve roster scheduling challenges
- Extended the EvoloPy framework to incorporate my implementation of the algorithms
- Developed diverse testing scenarios to evaluate algorithm performance, accuracy, and speed
- Analyzed data to gain insights into algorithm efficiency and effectiveness
- Visualized and presented comparison results to peers and instructors to demonstrate the potential of WOA and GA in optimizing roster scheduling