Isaac Donaldson

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EDUCATION

Bachelor of Science in Computer Science With Distinction, (Software Systems Option)   SEPT 2016 – APR 2022
University of Victoria   Victoria, BC, CAN
GPA: 3.7/4.0

- Honors & Activities: Three-Time Academic All Canadian, Two-Time Wirral Cup (Highest GPA - Men's Rowing).
- Studied material including operating systems, computer graphics, and software requirements.
- Special focus on software design, programming languages, and peer-to-peer networking.

SKILLS

<u>**Languages:**</u> JavaScript, TypeScript, Clojure, Python, Rust, Elixir, Ruby, Go, C++, Java
<u>**Platforms & Tools:**</u> Linux, macOS, Git, Bash, Vue.js, React, Ruby on Rails, MongoDB, PostgreSQL, node.js
<u>**Technical:**</u> Front-end, Back-end, Networking, Programming Languages, Cloud-native

WORK EXPERIENCE

Software Developer   JAN 2020 – APR 2022 (2.5 YR)
Track49   **Victoria, BC, CAN**

- Collaborated with developers and customers to design and implement cloud-native software that is scalable and robust.
- Worked with insurance underwriters to design and implement a new process for insuring marine vessels using a modern front-end web framework (Vue.js) and a node.js serverless back-end.
- Built a real-time stock market pricing and data server using Clojure for a social trading platform.
- Developed a Ruby on Rails web application to facilitate the discovery and research of mining projects.
- Created a text sentiment analysis algorithm in rust, and integrated with a web scraper to deliver technical insights into world markets.

Full-Stack Developer   APR 2020 – APR 2021 (1 YR)
Searchspacegeo   **Victoria, BC, CAN**

- Worked with Ruby on Rails to create an ecommerce platform to buy and sell mines and mining lands
- Built web scraping infrastructure to find available mines
- Built payment and tiered subscription services
- Worked with geospatial coordinates to map the location of mines

PERSONAL PROJECTS   https://github.com/isaacdonaldson

Hobby Operating System
GitHub: https://github.com/isaacdonaldson/rust-os

- Project to learn how operating systems are implemented, and to expand knowledge of the Rust programming language.
- Topics like interrupt handling, paging, heap allocation, and asynchronous tasks are covered.

Video Creator Asset Manager
Website: https://www.stashare.ca

- A web application for video creators to upload assets (Videos, Images, Audio) to share with each other in small communities.
- Used Vue.js on the front-end and TypeScript, node.js, and MongoDB on the back-end, deployed through AWS lambda (serverless), an EC2 instance (compute), and S3 (storage).

Event Publication for University Students
GitHub: https://github.com/isaacdonaldson/osgoode-oweek-client

- A web application for students to receive updates and planned events for their orientation week.
- Used Vue.js on the front-end and JavaScript, node.js, and MongoDB on the back-end, deployed through AWS lambda (serverless) and an EC2 instance (compute).