Alireza Mosavi

⌂ **3522 Claxton Crescent** | ♦ **T6W 0Z6** | ☐ **+1 (780) 257 8064** | ✉ **amosavi@ualberta.ca**

○ **alireza19** | in **ali-reza-mosavi-678958171** | ⊕ `https://alireza19.github.io/alirezamosavi/`

Education

B.S. Computing Science Specialization, University of Alberta: Class of 2021

Experience

Microseismic Industry Consortium, Software Developer Intern: Jan. 2020 - Apr. 2020

- Utilized Python to transfer a Julia package to a desktop application for field engineers to evaluate full waveform simulations and assess hydro-fracturing activities
- Developed an intuitive and easy-to-use user level GUI using PyQt for creating full waveform simulation models
- Integrated several parallel computing units into the application using Python and C++ and integrated it with a client-server model to allow for efficient resource sharing and ultimately faster modelling of simulations

Technik Creative, Software Developer: May 2019 - Present

- Created an interactive website using the HTML5/CSS/JavaScript front end stack and improving user experiences on a real estate website
- Optimized user experience considerations using a PHP/MySQL back-end and porting it with a content management system to allow for seamless updates to website data and deployed it on Google Cloud Platforms for a low-cost server solution
- Integrated several APIs using App Engine to improve user experience by enabling location, scheduling, and instant messaging services

Projects

- *Heroic Studios, Contributor -* **React Native, MongoDB, Expo, Express**: An intuitive application that allows users to request for life-saving help during an emergency. Users post an emergency and the location services pings the nearest qualified life-saver and notifies authorities with relevant information.

- *URL Shortener, Creator -* **JavaScript, Express, MongoDB**: An application that uses Nodejs to handle requests and a MongoDB database to log requests and return a shortened URL link

- *MoodTracker, Contributer -* **Java**: An Android application that utilizes social media as a platform for users to keep track of their mental health by posting updates and sharing them to their profiles.

- *MapReduce, Creator -* **C++**: An intuitive C++ library used to optimize multithreaded programs and scale large data processing using the POSIX compliant PThreads library.

Skills

- Programming/Scripting Languages: **Python, Java, C/C++, PHP, JavaScript, CUDA, Assembly, SQL**

- Frameworks and Tools: **Git, CI/CD, Google Cloud Platform, FireBase, MongoDB, ElasticSearch/Algolia, Android Studio, UNIX Environment**

Coursework

Introduction to Computing, Computer Organization and Architecture, Algorithms I, File and Database Management, Introduction to GPU programming, Introduction to Software Engineering, Operating System Concepts, Information Systems Security, Operations Management