

Alireza Mosavi

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Skills

- Programming: **Python, Java, C/C++, PHP, JavaScript, CUDA, Assembly, SQL**
- Technologies: **Git, Google Cloud Platform, Google App Engine, Cloud SQL, FireBase, MongoDB, Algolia, Android Studio, UNIX**

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 seismic simulations and assess hydro-fracturing activities
- Developed an intuitive and easy-to-use user level **GUI** using PyQt for creating seismic simulation models with **reduced modeling overhead**
- 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, DevOps: May 2019 - Present

- Created an interactive website using the HTML5/CSS/JavaScript front end stack and improving user experiences on a real estate website that has catered to over **10,000 leads and monthly visitors**
- 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 (HackED 2020) - 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.
- *Akash Homes, Creator - JavaScript, AJAX, PHP, MySQL, Google App Engine*: A full stack real estate website with an interactive admin content management system built seamlessly with AJAX/PHP server side configurations and a MySQL database deployed on **Google App Engine**, all interfaced with an intuitive UI. The project was developed with a value added approach for a client seeking an upgrade to the previous experience.
- *MoodTracker, Contributor - 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.

Education

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

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