Jarred Mahinay

+1 (780) 722-3849 | mahinay@ualberta.ca | Edmonton, AB

EDUCATION

University of Alberta   Edmonton, AB
Bachelor of Science with Specialization in Computing Science   *Sept 2016 – May 2021*

EXPERIENCE

Unity Developer Intern   Edmonton, AB
University of Alberta | `https://bitbucket.org/jarredcm/ua-magnetic-field-ar`   *Aug 2020 – Nov 2020*
- Primary developer for a mobile, augmented reality application used in undergraduate physics courses.
- Open-source project built in Unity using the AR Foundation framework.
- Implemented a real-time visual simulation of magnetic fields, which users can manipulate through interactive AR objects.

Research Assistant   Calgary, AB
3P Technology   *Nov 2021 – Apr 2022*
- Developed and maintained Python programs which send and receive data from data acquisition systems and oscilloscopes. These devices retrieve data from sensors such as voltage probes, hydrophones, shock sensors, and Rogowski coils.
- Improved efficiency by replacing physical interfaces with a Tkinter GUI and automating math operations in Python.

PROJECTS

Reactivities | *.NET 5, ReactJS, PostgreSQL, MobX, MediatR*
`https://github.com/derraj/Reactivities` | `https://reactivities-jarredm.herokuapp.com/`
- Created through the Udemy course 'Complete guide to building an app with .Net Core and React' by Neil Cummings.
- Reactivities is a social media app where users can create and share events with other users. Features include uploading photos to the cloud, real-time chat messages, and the ability to follow other user profiles.

Student Union Election Portal | *VueJS, Django, Django REST, MySQL*
`https://ualberta-cmput401.github.io/SU-Election-Portal/` | `https://youtu.be/1pMw4SpzVF4`
- A web app built for an undergraduate course which aimed at streamlining the student election process at the University of Alberta.
- Worked primarily as a frontend developer in a team of six using VueJS, with some work writing API endpoints using Django REST Framework.
- Collaborated with UI/UX designers to develop intuitive interfaces.
- Increased team efficiency by using proper version control and issue-tracking standards through GitHub and following the GitHub flow model. GitHub Actions was used for automated testing.

MediGram | *Android Studio, Java, Elasticsearch*
`https://github.com/derraj/MediGram`
- A medical logging app created in Android Studio for an undergraduate course.
- Worked primarily as a frontend developer in a team of six, with some backend work designing functions using the Elasticsearch API.
- Agile methods such as user stories, story mapping / prioritization and test-driven development were used.

TECHNICAL SKILLS

Languages: Python, C, C++, C#, SQL, JavaScript, HTML/CSS
Web Technologies: Django REST, Entity Framework Core, ReactJS, VueJS, .NET 5
Databases: Heroku, Postgres, MySQL
Tools: Android Studio, Docker, GitHub, Unity Engine