Jacob Prouse

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jacobprouse.github.io/personal

Employment

Web Development Student **Virtual High School** **Summer 2019**

- Improved database asset management system search times by 100% by implementing Full Text search on a MySQL instance and optimizing database queries
- Developed bash scripts for live database migration using Docker containers and MySQL CLI
- Interacted with AWS API to perform CRUD operations on media stored in AWS Buckets
- Designed a front end user interface to represent all API functionality, and for selecting and exporting content to the Learning Management System
- Documented application functionality through use of JSDocs
- Performed back-end unit testing using a testing suite of Mocha, Chai, and Sinon

Residence Advisor **Western University Housing** **Fall 2017 – Spring 2018**

- Planned, budgeted, and marketed 20 programs, including academic and professional development series
- Created a Python program for logging mandatory documented conversations with students into an SQLite database using a Python GUI.

Education

Software Engineering **Western University** **Fall 2016 – Present**

- BESc in Software Engineering, July 2020. GPA: 3.7
- **Coursework:** Operating Systems; Databases; Algorithms; Computer Networking; Computer Architecture; Information Security; Web Development

Technical Experience

- **Database Asset Management System** (2019): As a part of my employment at VHS I worked on a proprietary database asset management sytem that was used to perform CRUD operations on their course media content, used in their Learning Management System to create online course content. A Vue.js App built using Vuex, with a back-end using Express, and a MySQL database.
- **Canadian Engineering Accreditation Management System** (2018-2019): A database system that facilitates the management, measurement, and visualization of the graduate attributes in an engineering program defined by the Canadian Engineering Accreditation Board (CEAB). Ember.js, MySQL, UML

Languages and Technologies

- **Languages:** JavaScript; SCSS; sql; Java; Python; BASH;
- **Technologies:** Node.js; Vue.js, AWS; Git; Docker;

Extracurricular

- VP of Finance – Western Association of Role Players