

Jacob Prouse

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Education

Software Engineering **Western University** **September 2016 – May 2020**

- BESC in Software Engineering. GPA: 3.7
- **Coursework:** Databases, Algorithms, Information Security, Web Development

Employment

Web Development Student **Virtual High School** **May 2019 – September 2019**

- Improved database asset management system search by 100% through search query optimization
- Wrote bash scripts for live database migration using Docker containers and MySQL CLI
- Interacted with AWS 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

Projects

- **Class Recommendr** (2019-2020): Developed a web application that recommends Western University classes based on classes that a user likes. I worked as a Full Stack Developer designing a VueJS front-end, and developing a machine learning model that determined class similarities using Natural Language Processing techniques.
- **Database Asset Management System** (2019): As a part of my employment at Virtual High School I worked on a proprietary database asset management system that was used to perform CRUD operations on their media content, used in their Learning Management System to create online course content. This project was a VueJS web application with an Express back-end, utilizing a MySQL database.

Languages and Technologies

- **Languages:** Javascript, SCSS, SQL, Java, Python
- **Technologies:** Node.js, VueJS, ReactJS, AWS, Git, Docker

Extracurricular

- **VP of Finance:** Western Association of Role Players
- **Project Manager:** Western AI