

# Jacob Prouse

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## Employment

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Web Development Student	Virtual High School	Summer 2019
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- 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
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- 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 tkinter GUI.

## Education

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Software Engineering	Western University	Fall 2016 – Present
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- BESC in Software Engineering, July 2020. GPA: 3.7
- **Coursework:** Operating Systems; Databases; Algorithms; Computer Networking; Computer Architecture; Information Security; Web Development

## Technical Experience

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- **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. 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, MongoDB, UML

## Languages and Technologies

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- **Languages:** Javascript, SCSS, sql, Java, Python
- **Technologies:** Node.js, Vue.js, React.js, AWS, Git, Docker

## Extracurricular

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- VP of Finance – Western Association of Role Players