

# ANDREW HARROP

## WORK EXPERIENCE

### Software Engineer | The Virtual Gurus, 05/2021-09/2021

- Developed an internal automation system for employee and client information that saved hundreds of hours of manual data entry every month.
- Developed predictive automation algorithms that reduced the number of missing data points in selected fields to zero, some cases being an improvement of over 300%.
- Assisted in standardizing user interfaces for different system users, reducing network traffic generated from user actions by up to 20%.
- Implemented a quantitative metrics API for upper management, providing information that is currently used in analytics as well as presentations to venture capitalists.

### Software Engineer | Contractor, 01/2021 – Present

- Engineered a system that generated a return on investment of over 100%, finished before the project deadline and was 60% under budget.
- All web applications have a 0% downtime and have only received positive client feedback.
- Developed software conforming to or applying IEEE Software Engineering Standards, specifically ISO 9126 and ISO 12207.

## NON ACADEMIC PROJECTS & INITIATIVES

### ASE Data | API/SaaS application, 11/2020-03/2021

- Grew to over 40 beta clients before halting operations due to financial concerns and industry developments.
- 99.8% uptime, dynamically parsed and indexed hundreds of thousands of XBRL documents.

### EDGARServer | Wrapper/Data Parser, 09/2021-10/2021

- Database wrapper for the new SEC EDGAR API.
- Capable of applying linear or logistic regression on over 200 data points for 15 years of quarterly data in seconds.

### BuckIt List | Social Networking Application, 09/2021-Present

- API and UI that allows users to share activities they plan on doing.
- Engineered social Interaction oriented features to engage users, allowing operations such as posting, commenting, liking, following, reporting, privacy constraints, and querying users.






### Shawinigan Lake Rugby Team | High School AAAA Division, 08/2014-06/2018

- Gained valuable leadership skills and built lasting relationships with teammates
- First place in AAAA Division championship in 2017 and 2016, Second place in AAAA Division championship in 2018.
- Balanced 8 hours of training/gameplay a week with a full academic schedule

### UES anti-corruption campaign | Student government initiative, 10/2021-Present

- Personally led research into and successfully eradicated a conflict of interest within an engineering committee where a committee member was financially benefiting from their position within the committee at the expense of engineering undergraduate students.
- Currently investigating a possible misappropriation of over \$30,000 of funds over three years within the internal government of the engineering society.
- Constituent survey showed a 93% approval rate in further fund misappropriation investigations.

## CONTACT INFO

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## SKILLS

### Technical

C/C#/Objective-C/C++/Python  
HTML/SQL/React/PHP/Vue/  
REST APIs/CSS/AWS/.NET/  
Visual Studio/Java/JavaScript

### Professional

Leadership  
Software Design  
Incisive Communication  
Software Engineering Practices

## EDUCATION

### Software Engineering

Western University  
09/2018 –04/2022  
3.7 GPA  
Senior software engineering  
council representative in the  
Western Undergraduate  
Engineering Society

## ACHIEVEMENTS

Alexander Rutherford Scholarship  
Western Admission Scholarship  
High School Calculus highest  
average award  
Summited 22 mountains and  
counting  
Alberta 4x100M provincial  
champion  
Canmore Rocky Mountain 5k  
category champion