

# Andrew Zhan

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## Technical Skills

**Programming Languages:** Python, C, Java, Scheme, HTML, CSS, XML

**Tools:** Android Studio, Git, AutoCAD, Microsoft Office

## Projects

### ACE | Top 10 at Hack the Valley | Python

- ❖ ACE is a web-based virtual interviewer that allows users to practice their interviewing skills
- ❖ Written using Python and using AWS, ACE provides real-time facial analysis of the interviewee and gives them feedback on body positioning and facial expressions
- ❖ ACE also analyses what the interviewee says and gives feedback based on their question responses

### tweetBack | Python

- ❖ Created tweetBack, a web application that allows users to enter a set of keywords and have the app return the top Twitter tweets containing those keywords in a specific geographical location using the Twitter API. tweetBack then performs a sentiment analysis on the top tweets and returns a sentiment score that tells the user how positively or negatively people feel about those top tweets.
- ❖ Used Python for backend with the NLTK and Gensim libraries and used the Flask library to create a server to connect the backend to the website. React was used for the development of the website.

### Library Catalogue App | Java, XML, Android Studio

- ❖ Developed an Android application that allows the user to create a custom library catalogue for their books.
- ❖ Allows users to create a library of books with a checkout and return feature to keep track of who is borrowing user's books.

### Unit Converter App | Python

- ❖ Built a unit converter app that allows users to convert between various unit categories.
- ❖ Created the easy-to-use user interface using the Tkinter library.

## Experience

### Private Math Tutor

2018-2019

- ❖ Tutored grade 10 academic and grade 11 university level math
- ❖ On-average, increased students' final grade by 39%

### Extracurricular Math and Programming Tutor

2018-2019

- ❖ Organized meetings and lessons to teach middle school and high school students contest math and basic programming skills
- ❖ Demonstrated leadership, instructional, teamwork, and organizational skills

## Education

### University of Waterloo

2019-2024

Bachelor of Computer Science, Co-op

Awarded *Faculty of Mathematics Entrance Scholarship* (\$8000)

Awarded *President's Scholarship of Distinction* (\$2000)

### Wilfrid Laurier University

2019-2024

Bachelor of Business Administration

## Awards

### Euclid Math Contest

2019

- ❖ Top 4% in Canada

### OCDsB Student Recognition Award

2019

- ❖ Awarded to a single student demonstrating outstanding leadership and initiative

## Hobbies

Art, badminton, camping, chess, fitness, hiking, kayaking, long-distance running, skiing