

## Education

**University of Toronto** – *Third year student*

September 2018 - May 2022

- Honors B.S. Double Major in Computer Science and Economics
- Studied Data Structures, Databases, Linear Algebra, Calculus III, Micro/Macroeconomics
- Cumulative GPA of 3.17

## Projects

**PokeRec** – *Camera-based appraisal app, won 3rd at Oakhacks 2020*

<https://github.com/albertzed2000/PokeRec>

- Built a cross-platform front-end using React Native, increasing development productivity by ~100%
- Handled card lookup on database API by making calls using Axios

**LoL-Stats/RazeStats.com** – *Two fullstack gameplay analysis web apps*

[github.com/albertzed2000/LolStats-New](https://github.com/albertzed2000/LolStats-New)

- Developed routing-enabled ReactJS front-end that makes API calls to Riot Games endpoints
- Created an API proxy server using Amazon Lambda and API Gateway
- Generated stateful React classes to process & display over 30 unique data points from Riot API
- Used NodeJS server and MongoDB database to store searched matches, reducing endpoint calls by up to 1000%

**Zhengalbert.com** – *Personal website*

[github.com/albertzed2000/PersonalSite](https://github.com/albertzed2000/PersonalSite)

- Built an interactive front-end UI using React, React-Bootstrap and CSS
- Optimized final build for fast loading, resulting in a PageSpeed score of 91/100 for desktop

**AdventureOfPost** – *Android app with whack-a-mole, trivia, and sudoku*

[github.com/albertzed2000/AdventureOfPost](https://github.com/albertzed2000/AdventureOfPost)

- Implemented XML-based GUI on Android layout
- Employed Clean Architecture principles including ModelViewPresenter for cleaner development environment
- Used Git version control to manage contributions between 6-person team, preventing all conflicts

**Conversationalist** – *Voice controlled language learning app*

[github.com/albertzed2000/Conversationalist](https://github.com/albertzed2000/Conversationalist)

- Used CMUSphinx and Pocketsphinx libraries for voice-recognition backend modules
- Developed a similarities algorithm to compare user input to target phrase, boosting accuracy by ~50%
- Integrated app with XML-based UI on Android platform

## Employment History

**Cactus Club Cafe Burrard, Vancouver, BC** – *Chef De Partie/Prep Cook*

April 2019 - September 2019

- Assembled over 5,000 salads, poke bowls, sushi, and desserts in a teamwork-heavy kitchen
- Developed efficient communication system to serve full restaurants and generate up to \$100K revenue/day
- Helped delegate 50 hours of daily food preparation tasks amongst prep team

**Math4Me Clayton, Surrey** – *Head Tutor*

October 2017 - August 2018

- Connected with over 75 elementary school students and introduced Math/English/Science concepts
- Prepared 50+ high school students for math/English and improved their final grade by up to 25%

## Languages and Skills

**Java** – Gradle, Swing, CMUSphinx/PocketSphinx

**NodeJS** – Express, NPM

**MongoDB** – Mongoose

**ReactJS** – Axios, React-Router-DOM

**Software Design Patterns** – SOLID, MVP

**XML** – Android UI

**REST API** – Fetch/Axios/XHR, proxy servers

**Python** – SimpleGUI, Tkinter

**Version Control** – Git

**Linux** – Debian, Bash

**HTML + CSS** – Bootstrap

**Internet Of Things** – Raspberry Pi, GPIO, breadboarding

**React Native** – RN-Camera

**Other** – Verilog, ModelSim, Assembly/Machine Code