

Education

September 2018 - April 2022 (Expected)

University of Toronto - *Third Year Student*

- Pursuing Bachelor of Science with a double major in Computer Science and Economics
- Studied Data Structures, Complexity Analysis, Linear Algebra, Calculus III, Micro/Macroeconomics
- Cumulative GPA of 3.02

Projects

LoL-Stats/RazeStats - *Two gameplay analysis web apps*

github.com/albertzed2000/LoL-Stats

- Developed routing-enabled front-end interfaces using ReactJS
- Used Axios to query information from Riot Games API
- Created an API proxy server using Amazon Lambda and API Gateway

Personal Website - *Portfolio style Site*

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

- Built an interactive front-end UI using React, React-Bootstrap and CSS
- Deployed web app using Google Firebase

AdventureOfPost - *App with whack-a-mole, trivia, and sudoku*

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 midsize team, preventing all conflicts
- Used SQL database to store high scores and manage user accounts

Conversationalist - *Voice controlled language learning app*

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, minimizing frustrating user experience
- Integrated app with XML-based UI on Android platform

FileVis - *Python-based File/Document visualization Tool*

- Used recursive tree traversal to allow users to access nested folders and the files within
- Wrote extensive DocTests and UnitTests to confirm functionality
- Integrated tool into a colorful GUI visualizer that represents folders proportionate to their memory size

Employment/Volunteer History

October 2017 - August 2018

Math4Me Clayton, Surrey - *Head Tutor*

- Connected with Elementary School students and introduce Math/English/Science concepts
- Prepared high school students for Math/English/French/Physics concepts up to grade 11

Languages and Skills

Java - Gradle, Swing, CMUSphinx/PocketSphinx

Python - SimpleGUI

Version Control - Git

Software Design Patterns - SOLID, MVP

XML - Android UI

Python - SimpleGUI

REST API - Fetch/Axios/XHR, proxy servers

ReactJS - React-Bootstrap, React-Router-DOM

NodeJS - Express, NPM

MongoDB - Mongoose

HTML + CSS - Bootstrap

Other- Verilog, ModelSim, Assembly/Machine Code