
Education

September 2018 - April 2022 (Expected)

University of Toronto - *Third Year Student*

- Bachelor of Science in Computer Science and Economics
- Studied Data Structures, Complexity Analysis, Linear Algebra, Calculus III, Micro/Macroeconomics
- Cumulative GPA of 3.17

Projects

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

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

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

AdventureOfPost - *Android 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 6-person 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, boosting accuracy by ~50%
- 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 History

April 2019 - September 2019

Cactus Club Cafe Burrard, Vancouver, BC - *Chef De Partie & Prep Cook*

- 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

October 2017 - August 2018

Math4Me Clayton, Surrey - *Head Tutor*

- Connected with over 50 elementary school students and introduced Math/English/Science concepts
- Prepared 30+ 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 - React-Bootstrap, 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

Other- Verilog, ModelSim, Assembly/Machine Code