Albert Zheng

Vancouver & Toronto

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Education

September 2018 - April 2022 (Expected)

University of Toronto – *Second Year Student*

- Pursuing Bachelor of Science with a double major in Computer Science and Economics
- Cumulative GPA of 3.02

Projects

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

- 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*

- 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 coding patterns 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

MineSweeper – *Java-based Minesweeper game clone for desktop*

- Developed an interactive grid-based GUI for gameplay
- Created Handler objects for seamless mouse click and button interactions

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

August 2016 - August 2018

Inova Computer Association, Surrey – *Executive Board Director of Marketing*

- Managed social media and physical marketing campaigns
- Created and deployed new marketing and outreach strategies to maximize event attendance

Skills

Complexity – *Runtime analysis, Program Correctness*

Python – *Recursion, OOP*

Java – *Gradle, Swing, CMUsphinx/PocketSphinx*

XML – *Android UI*

Software Design Patterns – *Iterator, Observer, Strategy, Dependency Injection, Facade, Factory, Builder*

Data Structures

Algorithms

Version Control - *Git*

English, French, Chinese Mandarin – *Native English, Able to hold conversations in French and Mandarin*