

Kiavash Samadi

COMPUTER SCIENCE MAJOR · YEAR 3

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Tech Skills

Languages: C, C++, Java, HTML, XML

Technologies: Git, Bash, JUnit, Google Cloud Platform, VSCode, Android Studio

Projects

Visual Language Learning (nwHacks)

ANDROID APP

- A mobile app that, given an image of an object, generates a quiz with correct and incorrect translations to assist in the learning of a new language
- Created a user-friendly interface with a built-in history of captured images and corresponding quizzes, along with an easily accessible camera
- Utilized Java to create the client-side which interfaced with a REST API and Google App Engine
- On the server-side, used Google Cloud Vision and Translation APIs in conjunction with Datamuse to retrieve translated words

Image Compression

ALGORITHM

- A lossy image compression algorithm created using C++
- Learned about and used quadrees to break images down to individual pixels and average out values to generate a new image
- Optimized splitting points by minimizing the average entropy over nearby pixels

Word Search Game

ANDROID APP

- A mobile game in which the player(s) attempt to find words from a grid of letters
- Published here on the Google Play Store: <https://play.google.com/store/apps/details?id=com.appmosphere.words>
- Completed extensive JUnit testing to ensure bug-free release on the Google Play Store
- Researched and implemented activities and fragments in order to provide multiple interactive elements along with the ability to automatically pause and resume game state

Extracurricular Activities

UBC Computer Science Student Society

Vancouver, BC

SOCIAL OFFICER

Sept. 2018 - Apr. 2019

- Planned and coordinated events for the Computer Science student body
- Attended weekly meetings to provide feedback, discuss future plans, and improve operations within the club
- Developed the necessary skills to effectively communicate with club members and other executives

FIRST YEAR REPRESENTATIVE

Oct. 2017 - Apr. 2018

- Led a committee of students pursuing a degree in Computer Science
- Organized events to raise interest in Computer Science and improve engagement with incoming freshmen

Bayview S.S. Digital Media Club

Toronto, ON

PRESIDENT

Sept. 2016 - June 2017

- Founded a club focused on teaching digital photo and video creation using programs such as Adobe Illustrator and Photoshop
- Managed team of five executives and held weekly meetings to create lesson plans

Education

University of British Columbia

Vancouver, BC

BACHELOR OF SCIENCE - MAJOR IN COMPUTER SCIENCE

Sept. 2017 - Present

- Anticipated graduation date of May 2022