Kiavash Samadi

Computer Science Major · Year 3

(+1) 647-447-8484 | kiavash@alumni.ubc.ca | www.kiavashsamadi.com | kiavashsamadi

Tech Skills

Languages: C, C++, Java, JavaScript, Angular **Technologies**: Git, Bash, Spring Boot, Azure, Docker, Kubernetes, Jenkins, Terraform

Work Experience

Department of National Defence *Ottawa, ON*

Full Stack Developer *Sept. 2019 - Apr. 2020*

- Developed web applications using Spring Boot (Java) to implement the RESTful backends and Angular to create the JavaScript-based frontends
- Automated business processes by developing web apps entailing e-signatures, email notifications, relational databases, and multiple users with varying permissions
- Created a CI/CD pipeline to continuously build, test, and deploy applications with branch-specific modifications using Azure, Docker, Kubernetes, Jenkins, Terraform, and SonarQube
- Built an XML digital signature library and measurably improved performance by implementing performance logging
- Participated in the Agile planning process and acted as scrum master

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 their corresponding quizzes
- 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 quadtrees 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 on the Google Play Store: `https://play.google.com/store/apps/details?id=com.appmossphere.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 degrees in Computer Science
- Organized events to raise interest in Computer Science and improve engagement with incoming freshmen

Education

University of British Columbia *Vancouver, BC*

Bachelor of Science - Major in Computer Science *Sept. 2017 - Present*

- Anticipated graduation date of May 2022