BRIAN HO SOFTWARE

ENGINEERING

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in nairboh

nairboh

Skills

LANGUAGES

Java

C++

С

HTML/CSS

Python

JS

FRAMEWORKS & LIBRARIES

Android

Butter Knife

Dagger2

Retrofit

RxJava2

Jenkins8

Firebase

JUnit

OpenGLES 2.0

Qt

Swing

TOOLS

Git

Android Studio

SVN

Education

University of Waterloo Candidate for Bachelor of Software Engineering 2020

Employment

XE.com Inc.
Software Developer

Newmarket, ON Jan 2017 to May 2017

- Contributed to app redesign to replace XE Currency app (> 5 million installs) on Play Store
- Utilized various third party libraries for app redesign structure and testing (Dagger2 for dependency injection, Butter Knife for resources, RxJava2 and Retrofit2 for asynchronous retrieval and mapping of data)
- Migrated RateAlerts (**Firebase Cloud Messaging**) into its own Android resource library and integrated into app redesign
- Assisted with implementing Firebase App Indexing and Deep Linking in existing app
- Improved layouts in existing app and implemented **recyclerview** with search, swipe and move gestures in the redesign

Epson Canada Limited

Markham, ON

Software Developer Apr 2016 to Aug 2016

- Developed Android applications for Epson Moverio (augmented reality glasses)
- Solved UI hanging issues by implementing asynchronous loading of 3D models
- Utilized **OpenGL ES 2.0** to dynamically render a 3D refined icosahedron for object training and tracking based on user perspective and depth
- Designed UI and improved functionality for internal applications using Qt and C++
- · Demonstrated potential of glasses technology to foreign stakeholders and executives

Projects

SuperAutomator

Jun 2013 to Current

- Java multi-threaded timer and MP3 player with UI designed using the Swing library
- Improved daily routine of high school administration staff by automatically playing the announcements and National Anthem since 2013

Mayo Oct 2015

- Painting program designed using the Java Swing Library that utilizes the Myo Armband's gesture capabilities
- Mapped gestures to the paint brush (changing colours, brush size) using Myo Java API

Tetromino Simulator

Oct 2015 to Dec 2015

• Tetris game developed using Java and controlled by an Arduino microcontroller

Volunteering

FIRST Robotics, Team 4343 · Team Captain and Mentor

Sep 2011 to Current

- Implemented PID controller for various subsystems
- · Hosted open Java and object-oriented programming lectures to students

Awards

University of Waterloo · President's Scholarship of Distinction Achieving higher than 95% admission average

Sep 2015

Town of Aurora · Scholarship

Having the highest academic average of 97%

Jun 2015

VCCDC I and analogo Assessed

YSCPC · Leadership Award

May 2015

Award for having outstanding leadership in AV Tech Team and robotics in highschool