

BRIAN HO

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in nairboh

🔗 nairboh

Skills

LANGUAGES

Java

Kotlin

C++

C#

C

Python

FRAMEWORKS & LIBRARIES

Android

RxJava2

Dagger2

ButterKnife

Retrofit2/OkHttp

OpenGL ES 2.0

Qt

JUnit

TOOLS

Git

Android Studio

Education

UNIVERSITY OF WATERLOO

Candidate for Bachelor of Software Engineering
2015 to Current

Employment

SMART Technologies Android Software Developer

Seattle, WA
Sep 2017 to Jan 2018

- Created and shipped feature to allow users to export document to USB for Whiteboard and Notebook Player on the SMART Board (Android touch panel)
- Utilized data binding to implement new views and dialogs, improved USB mounting logic to support multiple devices in aforementioned apps
- Solved critical dependency issue which increased stability and minimized crashes for Whiteboard app
- Created Whiteboard 2.0 prototype to merge and deprecate both Whiteboard and Notebook Player into one app
- Created a time scrollable video, audio, and JSON capture client prototype in C# for SMART RCC (A whiteboard collaboration tool designed for Foxconn)

XE.com Inc. Android Software Developer

Newmarket, ON
Jan 2017 to May 2017

- Contributed to redesign for XE Currency app (> 50 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 in implementing Firebase App Indexing and Deep Linking in existing app
- Implemented recyclerview with search, swipe and move gestures in redesigned app

Epson Canada Limited Android Software Developer

Markham, ON
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++

Projects

Avaloo (github.com/nairboh/avaloo)

- Online Kotlin (Android) multiplayer game, based on the board game Avalon
- Uses QRCode for game pairing and a combination of WebSockets and RxJava2 for asynchronous game event updates

CourseBot (github.com/nairboh/coursebot)

- Python Slack bot which retrieves data from University of Waterloo's API
- Displays course requisites, and enrolment information upon user request

SuperAutomator (github.com/nairboh/superautomator)

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

Mayo (github.com/nairboh/mayo)

- Paint program designed with Java Swing, controlled by the Myo Armband
- Mapped Armband gestures for (changing colours, brush size) with Myo Java API

Volunteering

FIRST Robotics, Team 4343 · Programming Mentor
St. Maximilian Kolbe Catholic High School

Sep 2011 to Current