DAVID HULL

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EDUCATION

Dalhousie University   Halifax, Nova Scotia
BS Computer Science   September 2016 - May 2022

PROJECTS

RepKeeper *Realm, Swift, SwiftUI, UserDefaults, AVFoundation*
https://apps.apple.com/ca/app/workout-planner-repkeeper/id1672846764

- Developed and launched RepKeeper, an innovative workout planner and gym tracking app. For more information on the app's features explore the detailed description available on the App Store.
- Built user interface using SwiftUI with some components from UIKit.
- Implemented data persistence with MongoDB's Realm and on-device storage with UserDefaults.
- Integrated Email, Apple, and Google sign with Realm authentication.
- Utilized AVPlayer to display a series of 100 exercise instructional videos.
- Collaborated with designs made in Figma and translated them into SwiftUI.
- Implemented local notifications for exercise timers.

AR Painter: Augmented Reality Painting App *Unity, C#* https://dvhull.github.io/personal/ARPainter

- Built a cross-platform augmented reality drawing app with C# using Lightship's ARDK in Unity.
- Used Google's Tiltbrush open-sourced repository to build created brush strokes.
- Included ability for the user to select and erase created brush strokes.
- Added depth-based occlusions on created brush strokes for a more immersive and realistic experience.

EXPERIENCE

Blackberry   Halifax, Nova Scotia
Software Developer Intern   May 2021 - August 2021

- Developed inter-process communication mechanism for Blackberry Gateway client on Linux between the core service and the user interface.
- Wrote a variety of different unit tests for Blackberry Gateway product.
- Re-factored and fixed defects in Blackberry Gateway product.

University of Toronto   Toronto, Ontario
Software Developer Intern   May 2019 - August 2019

- Implemented five different new trading algorithms in Python for Rotman Interactive Trader simulation cases.
- Implemented a better error handler for Rotman Portfolio Manager's erroneous data points using C#.
- SQL database management for Rotman Portfolio Manager real-time quotes.

Sobeys Inc   New Glasgow, Nova Scotia
Software Developer Intern   May 2018 - August 2018

- Created utilities to display information about Sobeys store computers in C# using the .NET framework.
- Harmonized different prices using SQL for different Sobeys product prices across different store locations.
- Implemented batch scripts to back-up important databases routinely.

SKILLS

Proficient with: Swift, SwiftUI, XCode, SPM, Git/Github, UserDefaults, Python, Java, C#, SQL, Unix
Familiar with: UIKit(learning), C, HTML, CSS, C++, JSON, AVFoundation