William Redwood

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wredwood.com | linkedin/williamredwood

Profile	BSc (Hons) Computer Science graduate from the University of Sheffield with a demonstrated skillset in iOS development, programming, and retail.

Portfolio

My iOS portfolio currently consists of the following applications, all being developed and maintained solely by myself. I code in Swift, using Xcode, and am fully self-taught as this was not included on my university course.

Third-party libraries utilised include **Eureka** (for the creation of dynamic UITableView forms), **Realm** (database solution), **IceCream** (for cloud synchronisation of Realm using **CloudKit**), **SwiftTheme** (for app theming), and **Firebase** (for the backend of HeartSurvey).

FeesCalc for eBay (~2,600 downloads, released September 2018) | App Store
- Calculates the relevant eBay and PayPal fees incurred on a sale, and the subsequent profit, for private and business sellers in both the UK and US.

JourneyCalc (~1,800 downloads, released July 2018) | App Store
- Allows for the calculation and exportation of the fuel cost of journeys, the calculation of driving distance between two given places, a vehicle's mpg, and multiple different unit conversions.

TAVI Heart Team App (in development)
- In-development application designed to streamline patient selection, procedural planning, and multidisciplinary discussion for all members of a hospital's structural heart team.
- Includes the ability to log relevant clinical information, lab results, and imaging in a single platform; and calculate multiple transcatheter and surgical risk scores in a single step.
- Relevant anatomical information may also be inputted to receive guidance on valve selection from all commercially available devices.
- The information may be exported to a presentation file (PDF, using **PDFKit**) as a comprehensive platform for discussion and data sheet for auditing purposes.

Heart Survey (released March 2019)
- Dissertation project using **ResearchKit**, developed in conjunction with Guy's and St Thomas' Hospital, London, to monitor patient symptoms using standard cardiomyopathy questionnaires. Patient **HealthKit** data is also automatically gathered, with all results shown on a custom made website.
- Used in a real-world study.

Daily Notes Diary (~350 downloads, released April 2019) | App Store
- Cloud-synchronised daily note-taking diary.

Private Photos (~200 downloads, released January 2019) | App Store
- Secure media album, offering protection through passwords and biometrics.
- Media is protected using **LocalAuthentication**, imported using **PhotosUI**, and previewed using **AVKit**.

Drinking Out Loud (~150 downloads, released April 2019) | App Store
- Game with drinking challenges, featuring text-to-speech readouts of the challenges, and iCloud synchronisation of custom-added challenges.
- Text-to-speech and sound effects are handled using **AVFoundation**, namely **AVAudioPlayer** and **AVSpeechSynthesizer**.

Education

BSc (Hons) Computer Science - 2:1
The University of Sheffield (September 2016 - July 2019)
- Three-year course including the study of Python, Java, HTML/CSS, Ruby, Haskell, C++, and Pure Data.
- Partook in the "Global Engineering Challenge" and "Engineering - You're Hired!".
- First-class dissertation involving the development of an iOS application (in Swift) and associated backend and website, in collaboration with Guys and St Thomas' Hospital, London.

Advanced Level (A Level), Advanced Subsidiary (AS Level), IGCSE & GCSE
Hampton School (2011-16)
- A Levels in Economics, Further Mathematics, and Mathematics
- AS Levels in Geography and Physics
- FSMQ Additional Mathematics: A
- GCSE and IGCSE: 3 at A*, 7 at A, 1 at B
- **Responsibilities:**
  - Mentor to Year 9 form group (September 2015 - July 2016)

Experience   **Junior Software Developer**
LiveCode Ltd, Edinburgh (April 2021 - Present)
Currently involved in the development of LCFM Native, a tool to convert FileMaker solutions to native apps on Android, iOS, and macOS.

Customer Assistant
Chessington Garden Centre, Chessington, KT9 2NG (May 2016 - May 2018)
Utilised teamwork and communication skills at a large, independent garden centre in Chessington. Responsible for delivering a friendly service, playing an active role in answering customer merchandise or purchasing queries, general maintenance of the store, and sales.

Other
Work Experience: Barclays, London, E14 4BB (31 October 2014)
Work Experience: Berenberg Bank, London, EC2R 8HP (14 - 19 July 2014)
D of E Work Experience: The French Table, Surbiton, KT6 4AW (October 2012 - March 2013)
Paper Boy: Jay News, Thames Ditton, KT7 0QR (September 2011 - July 2014)

Hobbies
- Proficient with Windows, Linux, and macOS-based systems.
- Basic HTML/CSS – developed personal website.
- Hiking, particularly in the Peak District.
- Played benchball for the University of Sheffield Benchball Society, including at National Benchball Varsity 2019.
- Bronze Duke of Edinburgh's Award.