

William Taylor

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Technical Skills

Languages

Swift, JavaScript, TypeScript, HTML, CSS, C

Technologies

UIKit, SwiftUI, VueJS

Developer Software

Xcode, Git, Visual Studio, Adobe XD, Sketch, Figma

Employment History

iOS Software Engineering Intern (Drawboard)

March 2022 - Present (Part Time)

- Led effort to adapt the iOS app into a macOS app using Catalyst, adhering to platform conventions
- Analysed and addressed significant performance issues, increasing user satisfaction
- Designed a custom ink analysis system, allowing conversion from drawings to shapes
- Created a real-time high performance drawing system for Apple Pencil
- Worked with the product and design teams to develop other key features for the Drawboard app, which is for editing and annotating PDF files

Casual ICT Assistant (Carey Baptist Grammar School)

January 2022 - March 2022

Awards

Apple WWDC Scholarship 2017, 2018, and 2019

This allowed me to attend WWDC in the United States, where I was able to meet and learn from Apple engineers. The competition required the submission of an interactive project written in Swift that could be experienced in three minutes.

Apple Swift Student Challenge 2020, and 2021

In 2021 I was selected to participate in a video call with Apple CEO Tim Cook, along with nine other students across the world.

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Projects

PhotoShade (photoshade.app)

- iOS app that lets you search your photo library by colour
- Built a performant image analysis pipeline and a custom database optimised for the specific context of the app
- Thousands of downloads and hundreds of paying users
- Used by individuals and businesses worldwide
- Developed with UIKit and SwiftUI, using a modular architecture

Speed Player (apps.apple.com/app/speed-player-for-safari/id1521133201)

- iOS and macOS Safari browser extension for adjusting the speed of videos
- 70K downloads and has been covered in a number of publications and blogs
- Developed using SwiftUI (on iOS), AppKit (on macOS), and JavaScript

Vaccine Radar

- Free website to make it easier for people to locate a COVID-19 vaccine appointment, developed in 2021
- 40K visitors and helped thousands of people find a closer or sooner appointment
- Implemented a custom web scraper to locate appointments on government and non-government websites
- Shared by people such as Peter Doherty and Catherine Andrews on social media
- Developed using VueJS and TypeScript

Groups (classroom.group)

- iOS app for teachers to place students into teams
- Developed using UIKit and SwiftUI, using a MVVM architecture
- Actively used by hundreds of teachers

Education

The University of Melbourne (Bachelor of Science)

January 2022 - Present

- Majoring in Computing and Software Systems
- Current weighted average mark is 86.667%

Personal Qualities

- Strong attention to detail
- Curious and always ready to learn
- Creative and interested in exploring different approaches
- Resilient and able to persevere through challenges