William Astilla

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Education

University of North Carolina at Chapel Hill May 2024
Computer Science (BA); Entrepreneurship minor *GPA: 3.86*

Experience

iOS Engineer July 2024–Present
Walmart Global Tech

- Collaborate with a team of iOS developers to build and design features for Walmart Pay: Walmart's touch-free payment service, adhering to agile development practices and meeting tight deadlines
- Spearhead redesign of internal testing features for Walmart Pay functionality using Swift, UIKit, Combine, GraphQL, Apollo, and MVVM+C architecture
- Implement and deploy new flow and UI changes for Walmart Pay's 22 million monthly users
- Participate in the full development lifecycle, including design, development, testing, and deployment

iOS Engineer/CMO Jan 2022–May 2024
App Team Carolina

- Work with a team of developers, product managers, and designers to create an iOS application for a client aiming to make navigating UNC's campus more accessible for those with mobility limitations
- Build user-facing features of application using Swift, SwiftUI, MapKit and UIKit
- Ensure use of industry best practices including MVVM architecture, unit testing, and team collaboration using Git and GitHub
- Lead all marketing and external relationship efforts of the organization and manage a team of 5

Projects

My Spot – Date-Spot Sharing App (Swift, SwiftUI, Firebase, Combine)

- Released a production iOS app on the App Store that lets users bookmark, rate, and share their favorite date locations with friends and partners
- Integrated Firebase (Auth & Firestore) for secure user accounts and real-time data sync; employed the Combine framework for reactive state management
- Implemented location-based discovery and a custom card-style swipe animation (inspired by dating apps) for quick browsing and saving of spots

AuxJelly (Swift, SwiftUI, ShazamKit)

- Developed an iOS app using ShazamKit and Spotify's API that identifies a song playing nearby and auto-generates a playlist of similar tracks
- Implemented PKCE flow for OAuth 2.0 to secure authentication with Spotify and protect users against authorization-code interception
- Built a responsive, accessible UI entirely in SwiftUI

Computer Vision Clock (Raspberry Pi, Python, OpenCV)

- BEAM Makerfest 2023 Winner: *Best Overall Project*
- Led a team in creating a clock that uses facial recognition to identify specific users and show a "faster" time to hurry them out the door
- Leveraged Python, OpenCV, and Tkinter on Raspberry Pi for facial recognition, time-adjustment logic, and GUI

Roadio (Swift, SwiftUI, Python)

- HackNC 2022 Winner: *Best User Experience*
- Built the iOS front-end for a road-trip cost-analysis tool, handling route entry, real-time fuel-price lookup, and expense summaries

Technologies and Languages

Languages: Swift, Python, JavaScript, Java, SQL, HTML, CSS, Typescript
Technologies: SwiftUI, Xcode, UIKit, Combine, XCTest, Git, GitHub, ReactJS, AngularTS, PostgreSQL, FastAPI, Charles Proxy, Jira, Trello, VSCode, IntelliJ, three.js