

WILLIAM ASTILLA

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Education

University of North Carolina at Chapel Hill

Computer Science (BA); Entrepreneurship minor

May 2024

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

AuxJelly (Swift, SwiftUI, ShazamKit)

- Develop iOS app using ShazamKit and Spotify's API allowing users to identify songs and generate a playlist of similar songs
- Implement PKCE flow for OAuth 2.0 to enhance the security of our app's authentication process when integrating with Spotify's API, protecting user data from authorization code interception attacks
- Design and implement UI using SwiftUI

Computer Vision Clock (Raspberry Pi, Python, OpenCV)

- BEAM Makerfest 2023 Winner: Best Overall Project
- Collaborate with a team of developers to develop a clock employing facial recognition to identify specific individuals and display a later time to help them get out of the door quicker
- Utilize Raspberry Pi as hardware platform and Python, OpenCV, and Tkinter to control the clock's functionalities including facial recognition, time calculation, and GUI

CSXL Forum Website (Angular, PostGresQL, FastAPI, SQLAlchemy)

- Design and develop an interactive forum for the computer science experience lab (CSXL) at UNC
- Implement role-based access control for administrators, moderators, and users
- Architect backend database using SQLAlchemy and implement data persistence with PostgreSQL

Roadio (Swift, SwiftUI, Python)

- HackNC 2022 Winner: Best User Experience
- Develop front-end of iOS application for road-trip cost analysis using Swift and SwiftUI

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