Avi Wadhwa

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EDUCATION

University of British Columbia	September 2021 - Expected December 2026
Bachelor of Science in Computer Science	*Vancouver, BC*

EXPERIENCE

tvOS Apple Music Sing intern — May 2025 – August 2025
Apple — *Cupertino, CA*
- Worked **cross-functionally** to contribute to early-stage **R&D efforts** within the Sing product team.
- Built an internal tool bridging **audio frameworks to the continuity camera framework** on tvOS in SwiftUI
- Rapidly iterated on **microphone input experience** prototypes based on feedback from tvOS executives

iOS Mobile Developer Intern — May 2024 – August 2024
1Password — *Vancouver, BC*
- Developed the **Item Sharing History component** for the **iOS app** in **SwiftUI**, improving **feature parity** between platforms
- Contributed toward multiple **accessibility** and **VoiceOver** enhancements in an **Agile** environment.
- Participated in a company-wide hackathon, **winning** the **"Tighter Integrations"** category with an innovative **iMessage password sharing** project.

iOS Mobile Developer Intern: Google Summer of Code — June 2023 – August 2023
VLC Media Player / VideoLAN — *Remote*
- Implemented **Siri voice-controlled media playback** by integrating the **Apple Intents framework**, enhancing **user interaction with VLC.**
- Developed a **"Recently Watched" view** using **UIKit**, enabling users to easily access their viewing history.

PROJECTS

Lyric Fever | *SwiftUI, Swift, AppleScript, REST, CoreData, MusicKit, AppKit* — August 2023 – Present
- **macOS app** that fetches **time-synced lyrics** from multiple sources, integrating with Spotify and Apple Music
- Implemented user interfaces for fullscreen, miniplayer, and menubar views, focusing on **album art color analysis**
- **Deep OS integration** using Swift concurrency, DistributedNotificationCenter, MusicKit, and AppleScript to **sync with music players** whilst **remaining completely sandboxed**
- Caching lyrics on disk using **CoreData** to reduce network calls
- Supports translating & romanizing lyrics using Swift Transformations & the Apple Translation APIs
- **350+ stars** on **GitHub**

Spotify Friend Activity | *JSON, MVVM, Rest API, SwiftUI, Swift, WidgetKit* — August 2022 – September 2023
- Created an intuitive user experience porting Spotify's Friend Activity feature to the iOS platform.
- Designed a widget offering users to view their **friends' music activity** from the **iOS home screen.**
- Leveraged **Swift concurrency** to asynchronously query Spotify's Rest API, ensuring real-time updates.
- Available on the **App Store**, with **30,000+ users** and **398 ratings** with a **4.5 star average**.

LibreHunt.org | *JavaScript, Bootstrap, Python, Flask, SQLite* — May 2018 – May 2020
- Employed algorithms to analyze user responses and provide personalized Linux distribution recommendations.
- Featured on **Forbes** as **"Top Tool To Find Your Perfect Linux OS"**

EXTRACURRICULARS

ThunderBots UBC Design Team | *C++, Python, Qt* — September 2023 – April 2024
- Led the effort to **expand Thunderbot Software compatibility to arm64 Linux**.

TECHNICAL SKILLS

Languages: Swift, Python, Java, Kotlin, SQL (SQLite), JavaScript, HTML, CSS
Frameworks: React, SwiftUI, UIKit, Flask, JUnit, CoreData
Developer Tools: Git, VS Code, XCode, IntelliJ, Android Studio