Yves Adam Viaud

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Summary

Software Engineer with strong affinity for Apple platforms

Education

- **Paris Diderot-Paris 7 University** — Paris
  Master's Degree in Computer Science studying Programming Languages — *2018*

- **EFREI - Marne la Vallée University** — Villejuif - Marne la Vallée
  Mathematics and Computer Science Bachelor's Degree — *2015*

- **High School Parc de Vilgénis** — Massy
  Baccalauréat STI, Génie Electronique (High school Diploma) — *2010*

Experience

- **Devialet** — Paris Opéra-Paris Miromesnil
  Mobile Software Engineer — *October 2018-Present*

  Legacy iOS application managing Devialet speakers

  - **Multiroom**: Developed user interface to Devialet's vision of Multi-room, allowing to create groups composed of multiple solo/stereo speakers and make them play together using any source (AirPlay2, Spotify Connect or even Bluetooth).
  - **Stereo Support**: Added the ability to create and manage stereo pairs of speakers within the application.
  - **Migration**: Migrate legacy products to the new Devialet OS from setup Carousel flow using a variety of iOS APIs and frameworks in Swift and Objective-C++ like background downloads, Network Extensions or even low power mode monitoring.
  - **System/Group Settings**: Developed *Control Center like* widgets allowing to tweak the settings of the speaker; for instance: latency, preferred network interface, sources auto-switch, product informations and others.
  - **Certifications**: Helped pass Spotify and AirPlay2 certifications by complying the app to requested specifications.
  - **App management**: Various topics such as dependencies management using Carthage, continuous integration (provisioning profiles/certificates management, TestFlight deployment, test automation) using Fastlane, *ecosystem adaptations* regarding Apple Silicon platforms or new iOS SDKs (connectivity or privacy requirements).

  New iOS application managing Bluetooth headsets mainly using CoreBluetooth

  - **App management**: Supervised development by establishing guidelines to follow regarding app architecture, features and technologies.
  - **Implementation rework**: Reworked global architecture and adopting latest Swift technologies like Swift Packages for modularization or even result builders and property wrappers for cleaner view layout declarations.

- **Devialet** — Paris Opéra
  Internship — *April 2018 - September 2018*

  - **Apple Watch app**: Made an Apple Watch app allowing to control common functionalities of Devialet products including playback and volume management. Communicating with the product running a custom embedded Linux OS and hosting a web-server replying with JSON or Server Sent Events responses (C++/libsoup).
  - **Other features**: Developed other features like user account management, product registration...

Projects

- **Jailbreak tweaks (Cydia)**: Various programs allowing iOS modifications (NowListening, Notificator...)
- **Open source/Stackoverflow**: Contributing for various communities on Stackoverflow and open-source (VLC iOS)

Skills

- **Programming Languages**: C, C++, Objective-C, Swift
- **Frameworks/APIs**: UIKit, CoreBluetooth, Network, ExternalAccessory (MFI), NetworkExtension, AVAudioSession
- **Technologies**: Swift Package Manager, CMake, Fastlane, Carthage/Cocoapods
- **Interests**: Compilers (Swift Evolution), iOS Security, Embedded systems