

Reed Weichler

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SKILLS

- **Languages:** Objective-C, Swift, Lua/LuaJIT, C/C++, JavaScript, Python, Go
- **Tools / Software:** nginx, OpenResty, PostgreSQL, SQLite, Redis, OpenGL, FreeBSD, Git, Vim, Xcode
- **iOS:** Core Audio, reverse engineering (IDA, cycrypt), runtime modification development, app development, toolchain/framework development, Objective-C runtime, Objective-C / Lua interop, Realm, SQLite, RxSwift

EXPERIENCE

- **Superhuman** San Francisco
Software Engineer May 2018 - Aug 2019
 - Email client with much of the heavy lifting done on the client-side. Lot of hype in Silicon Valley. Users include Steve Huffman (Reddit), Michael Lopp (Apple/Slack), Nat Friedman (Github), Michael Seibel (ycombinator). It was small/midsize startup. 6 engineers when I joined. I worked with a team of 4 on the iOS app, written in mostly Swift, with some JavaScript/Objective-C/C++. I also added a few patches to the Go backend here and there. Standard run-of-the-mill bug fixes, feature work, and occasional cleanup/refactoring you'd expect at a startup.
- **Cydia** Feb 2014 - May 2018
Indie Developer
 - I made EQE (EqualizerEverywhere) and Cylinder. Search Google for something like "cylinder jailbreak". When jailbreaking was at its peak I had over 2M active users. I also contributed the developer community such as writing documentation on iphonedevwiki.net, contributing to upstream patches to Cydia Substrate / substitute (used for injecting code into iOS apps / processes), doing research (APT/dpkg clients, Lua/Objective-C interop, SpringBoard alternatives), and helping out on IRC/Discord. If I were to estimate, in total, my products are used by about 20% of active jailbreak users. See install counts here: apt.thebigboss.org/stats.php?dev=rweichler
- **Quixey** Palo Alto, California
Software Engineer (Intern) Jan - July 2012
 - Low-pressure intro to the industry. Learned about the whole Silicon Valley VC scene, and standard development practices at the time (MongoDB was hyped up during this time).

CYDIA PRODUCTS

- **EQE / EqualizerEverywhere:** About page: <https://eqe.fm/about>. Used to be a paid product until Cydia Store shut down in December 2018.
- **Cylinder:** Source: github.com/rweichler/cylinder Review: youtube.com/watch?v=Y-Pk-XDVj-o

SIDE PROJECTS

- **Lucy:** Lua / Objective-C bridge and runtime analysis/debugging tool for iOS. <https://github.com/rweichler/lucy>
- **jjjj:** GUI package manager for iOS (based on dpkg, similar to Cydia). <https://github.com/rweichler/jjjj>
- **Aite:** Custom build system used to develop software for Cydia. <https://github.com/rweichler/aite>
- **Sunnyveil:** 3D game engine written in C and LuaJIT. Has Lua bindings to Bullet (physics engine) and OpenGL.
- **Wuigi:** Mario clone (kind of like Mario Maker), written in Java. <https://github.com/rweichler/wuigi>
- **Luna Roja:** GameBoy emulator designed specifically for Pokémon Red. <https://hax.iimarckus.org/topic/7112/>

EDUCATION

- **Recurse Center:** Winter 2, 2020 (Jan 6, 2020 to March 27, 2020)
- **UC Davis:** B.S. Computer Science, Class of 2017
- **Homestead High School:** Cupertino, California