rweichler@gmail.com

github.com/rweichler

# 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 disassembler, cycript), 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 - Present

Email client with much of the heavy lifting done on the client-side. Many prominent users/investors who run
companies you've heard of, including Steve Huffman (Reddit CEO), Michael Lopp (Slack VP of Product/Eng), Nat
Friedman (Github CEO).

It's a small/midsize startup. 9 engineers. I work with a team of 4 on the iOS app, written in mostly Swift, with some JavaScript/Objective-C/C++. I also add 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.

## Indie iOS Developer / Cydia Store Vendor (jailbreak)

Sole Proprietorship

Feb 2014 - May 2018

o Main products: EQE, EqualizerEverywhere, Cylinder. Search Google for something like "cylinder jailbreak". All were written in a combo of Objective-C and Lua / LuaJIT, which required cross-language interop and a custom build system (no Xcode!) which I had to build from scratch (see Aite below).

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), 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

Software Engineer (Intern)

Palo Alto, CA

Jan - July 2012

• Quixey Challenge: Improved the recruiting pipeline by automating much of the process with a web application, using Meteor (Javascript / Node.js / MongoDB stack).

#### 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**

- UC Davis: B.S. Computer Science, Class of 2017
- Homestead High School: Cupertino, CA