Reed Weichler

rweichler@gmail.com
r333d.com
github.com/rweichler
twitter.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, 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 - 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 (including me) + 2 engineering managers when I joined. I worked with a team of 4 on the iOS app (Swift, Objective-C, C++, JavaScript). I also occasionally contributed to the web frontend (Electron / React.js) and the backend (Go / Postgres / Redis / GCP). Standard run-of-the-mill bug fixes, feature work, and occasional cleanup/refactoring you'd expect at a startup.

- **Cydia**
  Indie Developer — *Feb 2014 - May 2018*
  - 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