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EXPERIENCE

Superhuman

Software Engineer

San Francisco, California May 2018 - Aug 2019

• Email productivity startup. Lot of hype in Silicon Valley. Notable users: Steve Huffman (Reddit), Michael Lopp (Apple/Slack), Nat Friedman (Github).

It was a small company when I joined. 6 engineers (including me) + 2 engineering managers. 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) and the backend (Go / Postgres / Redis / GCP).

On the iOS side I fixed many crashes/bugs that affected thousands of paying users, added UI/UX improvements to make navigating the app easier and more pleasant, automated the build system to tag the git repo for easier debugging, reduced a significant amount of tech debt, and more.

Cvdia

Indie iOS Developer

Feb 2014 - May 2018

• See "Cydia Products" section for more details.

Quixey

Palo Alto, California Jan 2012 – July 2012

Software Engineer (Intern)

• Helped build the Quixey Challenge (recruiting tool) using the Meteor framework (JavaScript).

Cydia Products

- EQE (released 2017) / EqualizerEverywhere (released 2014): EQE has two components. A system-wide parametric equalizer (the only of its kind) and a Last.FM-like service that lets users create a profile, track their playback history, post on a message board, and keep a backup of their presets online. The iOS side required reverse engineering, audio DSP, app development, and low-level iOS systems engineering. Server-side, I used OpenResty (an nginx distribution) for the application, with Postgres for persistent storage and Redis as a message broker. It can handle about 10K requests per second on a cheap \$3.50 VPS. It used to be a commercial product until Cydia Store shut down in December 2018. About 8,000 weekly active users. More info: eqe.fm/about
- Cylinder (released 2014): Animation "platform" that exposes a Lua API for cool icon animations when swiping on the home screen. Over 2.5 million total downloads and probably more than 100K active users. Review: youtube.com/watch?v=Y-Pk-XDVj-o Source: github.com/rweichler/cylinder

OPEN SOURCE CONTRIBUTIONS

- Zebra: Initial R&D and localization support. https://github.com/wstyres/zebra
- gmusicapi: Reduced network usage for certain types of tracks. https://github.com/simon-weber/gmusicapi

OTHER PROJECTS

- Meatpick: Basic Calendly clone. http://meatpick.com
- gbrc: Gameboy emulator, written from scratch in C. Runs Pokemon Red.
- Lucy: Lua / Objective-C bridge and runtime analysis/debugging tool for iOS. https://github.com/rweichler/lucy
- jijj: GUI package manager for iOS (based on dpkg, similar to Cydia). https://github.com/rweichler/jijj
- 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: Edit of mGBA, giving online multiplayer to Pokémon Red. https://hax.iimarckus.org/topic/7112/

SKILLS

- Languages: C/C++, Lua/LuaJIT, Objective-C, Swift, JavaScript, Python, Go
- Tools / Software: SQLite, C FFIs, OpenGL, Git, Vim, devKitARM (Nintendo 3DS toolchain)
- Backend / Infra: OpenResty (nginx "distribution"), Postgres, FreeBSD, Redis
- iOS: Core Audio, Xcode, build automation, Objective-C / LuaJIT interop, Realm, IDA, cycript, MobileSubstrate, Objective-C runtime, inter-process communication, RxSwift

EDUCATION

- Recurse Center: Jan 2020 March 2020
- UC Davis: Computer Science, Class of 2017
- Homestead High School: Cupertino, California