

EDUCATION

University of Texas at Austin

Austin, TX

Bachelor of Science in Computer Science: Turing Scholars Honors; GPA: 3.80

Aug 2012 – May 2015

- **Thesis:** “A Concurrent Dictionary and Wait-Free Queue from Compare and Swap”

EMPLOYMENT

Consensys

San Francisco, CA

Blockchain Engineer

May 2018 - Present

- **MetaMask-iOS:** Independently creating mobile cryptocurrency wallet and dapp browser

Vulcanize.io

Los Angeles, CA

Blockchain Engineering Contractor

Mar 2018

- **AppToken:** Gas-efficient token with approved application contracts and application-approval DAO
- **ForumLottery:** IPFS-based forum that pays out tokens to contributors obtaining the most upvotes

Snap

Venice, CA

Mobile Software Engineer

Jun 2015 - Nov 2018

- **Memories:** Created and shipped Memories for both iOS and Android
- **Messaging:** Owned the Android media pipeline, reduced video p99 latency 80% and video error rate 47%
- **Tools:** Created internal workflow scripts and pull request nagbot “Der Krampus”

PERSONAL PROJECTS

FinneyVote

Jan - Feb 2018

github.com/wjmelements/cabal

finneyvote.com

- Forum powered by Ethereum smart contracts that rewards controversial discourse

Paretto

Oct 2014 - Jan 2017

bitbucket.org/wjmelements/colors

Available on the iOS App Store

- iOS puzzle and survival game based on the four-color theorem

Meerchat

Apr - Dec 2014

bitbucket.org/wjmelements/asl

Formerly meerchat.net

- Peer-to-peer messenger powered by WebRTC supporting images, video chat, and synchronized Youtube

Bukkake

Apr 2013 - Sep 2014

bitbucket.org/wjmelements/bukkake

- x64 JIT compiler for parallel brainfuck

libscion

Since July 2013

bitbucket.org/wjmelements/libscion

- Concurrency framework in C++ facilitating wait-free dataflow programming

PROFICIENCIES

Languages (Expert):

C, C++, Java, Solidity, Javascript, Objective-C

Languages (Experienced):

Bash, Perl, Haskell, R, Prolog

Selected Tools:

git, make, cURL, vim

Misc:

iOS, Android, Linux, Ethereum, SQL