

## EDUCATION

---

### University of Texas at Austin

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

Austin, TX

*Aug 2012 – May 2015*

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

## EMPLOYMENT

---

### Consensys

*Blockchain Engineer*

San Francisco, CA

*May - Aug 2018*

- Prototyped mobile ethereum wallet and dapp browser
- **uPort:** Implemented EIP155 for iOS uPort

### Vulcanize.io

*Blockchain Engineering Contractor*

Los Angeles, CA

*Mar 2018*

*github.com/vulcanize/message\_board\_solidity*

- **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

*Mobile Software Engineer*

Venice, CA

*Jun 2015 - Nov 2017*

- **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

*github.com/wjmelements/cabal*

Jan - Feb 2018

*finneyvote.com*

- Forum powered by Ethereum smart contracts that rewards controversial discourse

### Graffiti

*github.com/wjmelements/pub*

Nov 2017

*graffiti.online*

- Simple blockchain archiving dapp

### Paretto

*bitbucket.org/wjmelements/colors*

Oct 2014 - Jan 2017

*Available on the iOS App Store*

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

### Meerchat

*bitbucket.org/wjmelements/asl*

Apr - Dec 2014

*Formerly meerchat.net*

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

### Bukkake

*bitbucket.org/wjmelements/bukkake*

Apr 2013 - Sep 2014

- x64 JIT compiler for parallel brainfuck

### libscion

*bitbucket.org/wjmelements/libscion*

Since July 2013

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

## PROFICIENCIES

---

### Languages (Expert)

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

### Languages (Experienced)

Javascript, Bash, Perl, Haskell, R, Prolog

### Selected Tools

git, make, cURL, vim

### Misc

iOS, Android, Linux, Ethereum, SQL