

## EDUCATION

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- **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

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- **Consensys** San Francisco, CA  
*Blockchain Engineer* May 2018 - Present
  - **MetaMask-iOS:** Independently created a 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  
*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

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- **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

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**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