

Austin Guest

Programmer

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WORK EXPERIENCE

- Lead Senior Engineer at [Wave Mobile Money](#)** July 2019 – July 2020
- Drove double-digit growth by shipping company's first customer-facing Android app for p2p mobile money payments
 - Reduced fraud to safe levels by threat-modeling then overhauling login flows to mitigate account hijack attacks
 - Increased capacity by mentoring three engineers, implementing companywide pairing rotation, leading knowledge shares
- Tech Lead at [Quantstamp](#)** May 2018 – Dec 2018
- Built ERC-20 token payment gateway for YCombinator Demo Day release of flagship smart contract auditing product
 - Architected and led implementation of monitoring dashboard to detect smart contract vulnerabilities in realtime
 - Worked with CEO, CTO to hit monthly release cycle goals; led sprint-planning; mentored team in clean design, Agile
- Contributor at [Riseup.net](#)** Jan 2018 – Mar 2018
- Extended best-of-breed secure email provider's account management backend to host 3rd party email at custom domains
- Lead Engineer at [Affinity.works](#)** Jan 2018 – Jun 2018
- Built bulk data-syncing infrastructure (Action Kit to VAN ETL) for campaign to pass nation's first statewide carbon tax
 - Secured key customers for flagship volunteer management product by reducing page load times by 10x
- Contract Full Stack Engineer at [LittleSis.org](#)** Aug 2017 – Jan 2018
- Incentivised institutional data-sharing by implementing tagging system that preserved partial ownership of shared data
- Contributor at [LEAP Encryption Access Project](#)** Mar 2017 – Jul 2017
- Overhauled Android VPN client's toolchain to facilitate onboarding from new contributors
- Backend Software Engineer at [SoundCloud](#)** Mar 2017 – Jun 2017
- Extracted subscription quote microservice in Scala from monolithic Rails app to increase site performance and reliability
 - Streamlined process for identifying and fixing bugs in monthly financial reporting system
- Software Engineer at [UpLevel Security](#)** Sep 2016 – Mar 2017
- Increased early-phase startup's velocity by overhauling legacy React codebase for greater performance and maintainability
 - Persuaded CTO to pay down tech debt by demonstrating app failure at required loads; led implementation of new design
- Senior Software Developer at [ThoughtWorks, Inc.](#)** Jun 2016 – Sep 2016
- Delivered order fulfilment system for Fortune 50 logistics firm; coached team in React/Redux best practices
 - Drove adoption of security best practices by co-facilitating daylong 'AppSec101' trainings
- Creator, Tech Lead at [where@](#)** Jun 2015 – May 2016
- Shipped secure(er) location-sharing app to provide pseudonymous/encrypted geo-updates while storing zero user data
 - Managed team of 8 ThoughtWorks devs: set architecture, planned sprints, provided coaching (in Android, React, Scala, FRP)
 - Received mentorship in infosec from senior ACLU/Debian security technologist Daniel Kahn Gillmore
- Web Developer at [LittleSis.org](#)** Mar 2015 – Jun 2015
- Drove adoption and funding by adding annotation-driven slide-show UI to site's social network visualization suite
 - Increased velocity by migrating network visualization tool from monolithic PHP/jQuery design to modular Rails/React stack
- Web Developer at [BK Shift](#)** Jan 2014 – Jul 2014
- Delivered first Rails app in 3 months, reducing time needed to allocate weekly shifts by over 50%

EDUCATION

Recurse Center, Programming Retreat

Jan 2019 – Present

Shipped Signalboost, a rapid response tool that broadcasts encrypted text blasts to mass distribution lists over Signal -- written in node, leveraging unix sockets. Expanded knowledge of devops workflows (Docker, Ansible, Prometheus, etc.). Implemented basic cryptographic protocols in Rust. Played lots of CTFs!

Recurse Center, Programming Retreat

Nov 2014 – Feb 2015

Studied functional programming, networks, and concurrency by writing a BitTorrent client in Scala from scratch

Structured Mentorship, Guillaume Marceau (M.Sci., Brown; PhD Candidate, WPI)

Mar 2014 – Nov 2015

Completed project-driven 1-on-1 training in clean design, algorithms, complexity analysis, TDD, functional programming

Harvard University, Performance & Media Studies

Sep 2000 – Jun 2007

Summa Cum Laude Thesis, High Honors in Major, 3.27 GPA

SKILLS

Languages (ordered by strength): JavaScript, Kotlin, Python, Ruby, Java, Scala, Rust, Go, Clojure

Dev Ops: Docker, Ansible, Prometheus/Grafana, Nginx, Heroku, assorted automated testing tools

Security: Threat modeling, appsec (OWASP Top 10), library-level cryptography (Libsodium, etc.), credentials management

Miscellaneous: Emacs, IntelliJ, bash scripting, linux workflow hacks, bike repair, direct action coordination