

Austin Guest

Programmer

[Github](#) | [LinkedIn](#)
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WORK EXPERIENCE

Technical 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 custom bulk data-syncing infrastructure for campaign to pass nation's first statewide carbon tax
- Reduced response times for Affinity's flagship grassroots volunteer management tool by 10x
- Increased new user adoption by leveraging Rb-NaCl to provide clients with secure custom 2-step OAuth signup flow

Contract Full Stack Engineer at [LittleSis.org](#) Aug 2017 – Jan 2018

- Incentivised institutional data-sharing by implementing tagging system that preserves partial ownership of shared data

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

Senior 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 prioritize paying down tech debt by demonstrating current design failed at required load
- Spearheaded implementation of new design by nurturing adoption of disciplined testing and profiling practices

Senior Software Developer at [ThoughtWorks, Inc.](#) Jun 2016 – Sep 2016

- Delivered user-friendly order fulfilment system for Fortune 50 logistics company
- Drove adoption of security best practices by co-facilitating daylong 'AppSec101' trainings
- Increased team cohesion by coaching peers on functional design principles in React/Redux apps

Creator, Tech Lead at [where@](#) Jun 2015 – May 2016

- Shipped secure location-sharing app that provided anonymous/encrypted geo-updates while storing zero user data
- Managed full team of ThoughtWorkers: 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; used TDD, Agile best practices to meet evolving business needs over project lifetime.
- Helped double weekly revenues by reducing time needed to allocate 300-400 weekly shifts to 100-150 riders by over 50%

EDUCATION

Recurse Center, Programming Retreat

Jan 2019 – Present

Shipped Signalboost, a rapid response tool that broadcasts encrypted messages to mass distribution lists over Signal -- written in node, leveraging unix sockets. Expanded knowledge of Docker and Ansible. Implemented basic cryptographic protocols in Rust.

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 (ES6/TypeScript), Ruby, Scala, Rust, Java, Clojure, Go, Python, Solidity

Dev Ops: Ansible, Docker, Heroku builpack design, Go-CD/Concourse.ci, Nginx configuration, Assorted automated testing tools

Security: Threat modeling, AppSec (OWASP Top 10), Library-level cryptography (libsodium, etc.)