Austin Guest

Programmer

Brooklyn, NY Github: aguestuser Email: austin.guest@riseup.net Twitter: aguestuser Phone: 831.917.6400 **LinkedIn:** Austin Guest

Work

Founder, Tech Lead

where@

06/2015 - 05/2016

https://whereat.io

Wrote full-stack mobile app, including Android clients in Java and React Native,

Designed and shipped prototype for security-conscious location-sharing app

- web app in React, and server in Scala using websockets and reactive streams to protect users by eliminating stored state on the server Led team of 8 volunteer developers from ThoughtWorks NYC -- including
- drafting user stories and acceptance criteria, consensus-building around architectural decisions, coordinating work across 4 parallel dev streams Received mentorship in threat-modeling, cryptography, and security training from senior Tor/ACLU security technologist Daniel Kahn Gillmore; supervised

coaching, pairing, code review, test harness design and coverage enforcement,

- implementation of Public Key Pinning in Android, privacy-focused alternative to Google LocationProvider in React Native Currently implementing: continuous delivery pipeline using good/AWS/Docker,
- Kafka-backed message brokering to enable horizontal scaling

Contract Web Developer 03/2015 - 06/2015

LittleSis.org

https://littlesis.org

Catalyzed migration from monolithic legacy code base to modular, testable design by designing and supervising port of one-feature vertical slice from PHP/jQuery to Rails/React

Contract Web Developer 01/2014 - 11/2014

BK Shift http://bkshift.com

Delivered working full-stack Rails app in 3 months, used TDD and 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% Used 1-week Agile sprints to ensure continuous deployment of usable features,
- front-load completion of learning-rich user stories, provide client with a burn-up chart

Activist & Researcher 09/2011 - 05/2013

Occupy Wall Street

Deployed and iterated on complex systems approaches to large-scale social

change Conceived and project-managed Occupy The Boardroom, a web app that sent

- and displayed personal emails from ordinary people directly to the CEOs of the "Big Six" banks
- · Coordinated Occupy Sandy's needs assessment canvass in the Far Rockaways, including design and implementation of distributed data-input system to support to overtaxed on-the-ground coordinators
- support of ongoing affordable housing campaigns; used research to write pamphlets, conduct teach-ins Coordinated tactical framework development, trainings and communications

Used NYC's OpenData portal to research property ownership in Crown Heights in

financial district Jobs with Justice NYC Online Organizer

infrastructure for mass mobilizations of tens of thousands of people in NYC's

06/2010 - 12/2011

http://alignny.org

Service Employees International Union

Managed online strategy for successful citywide campaign to keep Walmart out of

YouTube views

Organizer 09/2009 - 03/2010

New York City -- growing email list by 38% and generating tens of thousands of

https://seiu.org

Contributed to national campaign to organize Sodexo food service workers

Education

through on-the-ground committee building and leadership development

Programming Retreat

Wrote non-blocking chat server in Scala, using futures and a custom wrapper around Java's NIO2 library; began work on a Scala BitTorrent client, including

Recurse Center

11/2014 - 02/2015

custom parser combinators and non-blocking socket IO; completed readings and exercises on algorithms, data structures, function composition, monads, concurrency, and recursion. Guillaume Marceau (M.Sci., Brown) 03/2014 - 11/2015 Weekly Private Mentoring

Completed intensive project-driven training including code review and design

critique in areas covering algorithms, complexity analysis, domain modeling, designing for extensibility and maintainability, test-driven development, agile

project management, functional programming, SOLID object oriented principles,

concurrency, distributed programming, etc. BA Harvard University Performance & Media Studies 09/2000 - 06/2007 Summa Cum Laude Thesis

Languages

Actor-Oriented Programming

Mocha

Stanford Javascript Crypto Library

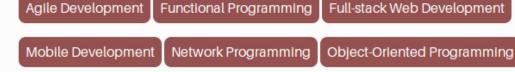
Java

High Honors in Major

Skills

Scala

Paradiams



JavaScript/ES6

Ruby

SQL

Reactive Programming

Racket

Akka-Http Slick Play Akka-Streams Gatling ScalaTest

Chai

Sinon

Mockito Robolectric

JVM Libraries



Dev Ops

Mongoose



Nginx

Security

Certificate & Public Key Pinning SSL/TLS configuration

NaCl/Libsodium Signal Protocol Threat Modeling

RxJava

Retrofit

JUnit