

# AUSTIN GUEST

📍 Brooklyn, New York, US

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“ Fast-learning full-stack generalist with experience shipping working code using rigorous design and testing principles. Looking to work with a tight-knit autonomous team that values intellectual exploration, compassionate communication, and social justice. ”

## 📱 Work Experience

### Founder, Tech Lead ( 2015 - 2016 )

[where@](#)

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

- Wrote full-stack mobile app, including Android clients in Java and React Native, 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 coaching, pairing, code review, test harness design and coverage enforcement, 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 implementation of Public Key Pinning in Android, privacy-focused alternative to Google LocationProvider in React Native
- Currently implementing: continuous delivery pipeline using gocd/AWS/Docker, Kafka-backed message brokering to enable horizontal scaling

### Contract Web Developer ( 2015 )

[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 ( 2014 )

[BK Shift](#)

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 ( 2011 - 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
- Used NYC’s OpenData portal to research property ownership in Crown Heights in support of ongoing affordable housing campaigns; used research to write pamphlets, conduct teach-ins
- Coordinated tactical framework development, trainings and communications infrastructure for mass mobilizations of tens of thousands of people in NYC’s financial district

### Online Organizer ( 2010 - 2011 )

[Jobs with Justice NYC](#)

Managed online strategy for successful citywide campaign to keep Walmart out of New York City -- growing email list by 38% and generating tens of thousands of YouTube views

### Organizer ( 2009 - 2010 )

[Service Employees International Union](#)

Contributed to national campaign to organize Sodexo food service workers through on-the-ground committee building and leadership development

## 🎓 Education

### Recurse Center

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 custom parser combinators and non-blocking socket IO; completed readings and exercises on algorithms, data structures, function composition, monads, concurrency, and recursion.

2014 - 2015

### Guillaume Marceau (M.Sci., Brown)

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.

2014 - 2015

### Harvard University

Performance & Media Studies, BA

2000 - 2007

- Summa Cum Laude Thesis
- High Honors in Major

## 🎓 Skills

#### Languages

Scala Java JavaScript/ES6 Ruby SQL Racket

#### Paradigms

Agile Development Functional Programming Full-stack Web Development Mobile Development  
Network Programming Object-Oriented Programming Actor-Oriented Programming  
Reactive Programming

#### JVM Libraries

Akka-Streams Akka-Http Slick Play Gatling ScalaTest RxJava Retrofit JUnit Mockito  
Robolectric

#### Javascript Libraries

React React-Native Redux Express Lodash Immutable.js Webpack Grunt Mongoose  
Mocha Chai Sinon

#### Dev Ops

Continuous Delivery Automated Testing Go-CD Concourse.ci Docker AWS Nginx  
DigitalOcean

#### Security

Certificate & Public Key Pinning SSL/TLS configuration Stanford Javascript Crypto Library  
NaCl/Libsodium Signal Protocol Threat Modeling