Austin Guest

Programmer

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SUMMARY

Fast-learning full-stack generalist with experience shipping working code using rigorous design and testing principles. Looking for a tight-knit autonomous team that values experimentation, communication, and social justice.

WORK EXPERIENCE

Founder, Tech Lead at **where@**   Jun 2015 – May 2016

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 at **LittleSis.org**   Mar 2015 – Jun 2015

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 at **BK Shift**   Jan 2014 – Jul 2014

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 at **Occupy Wall Street**   Sep 2011 – May 2013

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 at **Jobs with Justice NYC**   Jun 2010 – Dec 2011

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 at Service Employees International Union   Sep 2009 – Mar 2010

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

EDUCATION

Recurse Center, Programming Retreat   Nov 2014 – Feb 2015

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.

Weekly Private Mentoring, Guillaume Marceau (M.Sci., Brown)   Mar 2014 – Nov 2015

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.

Harvard University, Performance & Media Studies   Sep 2000 – Jun 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