Austin Guest

Programmer

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BACKGROUND

ABOUT

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, where@
Jun, 2015 - May, 2016   11 months

Designed and shipped prototype for security-conscious realtime 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, LittleSis
Mar, 2015 - Jun, 2015   3 months

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, BK Shift

Jan, 2014 - Nov, 2014 🕓 10 months

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, Occupy Wall Street

Sep, 2011 - May, 2013 🕓 1 year 7 months

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, ALIGN (Jobs with Justice NYC)

Jun, 2010 - Dec, 2011 🕓 1 year 6 months

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, SEIU (Service Employees International Union)

Sep, 2009 - Mar, 2010 🕓 7 months

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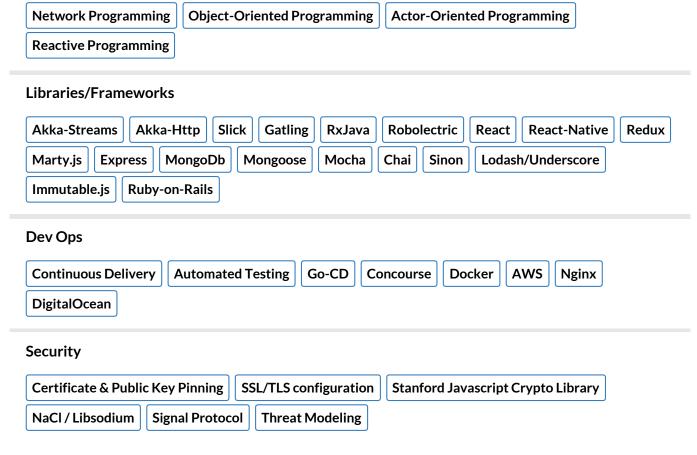
⚒ SKILLS

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

Libraries/Frameworks

Akka-Streams | Akka-Http | Slick | Gatling | RxJava | Robolectric | React | React-Native | Redux
Marty.js | Express | MongoDb | Mongoose | Mocha | Chai | Sinon | Lodash/Underscore
Immutable.js | Ruby-on-Rails

Dev Ops

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

Security

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

🎓 EDUCATION

Programming Retreat, Recurse Center, (FKA: Hacker School)

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, Tech Lead, BodyLabs, M.Sc. Brown Computer Science

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.

Performance & Media Studies, BA, Harvard University

Sep, 2000 - Jun, 2007

Summa Cum Laude Thesis | High Honors in Major