Austin Guest, Programmer

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SUMMARY

Self-taught programmer who has learned five languages, full-stack web development, mobile development, functional programming, basic algorithms, and Agile development in three years. Looking to work on high social impact projects with a team of inquisitive, rigorous thinkers that love learning, communicate compassionately, and want to make the world a better place.

EXPERIENCE

where@, Founder, Tech Lead   2015-06-01-2016-05-01

https://whereat.io

- Conceived, architected, wrote prototype, and managed agile team for secure realtime location sharing app
- Wrote majority of code, documentation for multi-tiered secure mobile app, including mobile clients in Java and React Native, web app in React, reactive-streams-based server in Scala
- Led team of eight volunteer developers from ThoughtWorks NYC -- including coaching, pairing, code review, and consensus-building around major architectural decisions
- Received mentorship in threat-modeling, cryptography, and security training from renowned ACLU security technologist Daniel Kahn Gillmore
- Wrote, grouped, and prioritized user stories and epics for four parallel development streams according to Agile best practices
- Developed public-facing ecosystem to optimize paths to access for outside contributors using cutting-edge OSS collaboration platforms (gitter.im, waffle.io, etc.)
- Conducted user tests in simulated and live protests to drive UX and design decisions
- (Currently) implementing continuous delivery pipeline in Thoughtworks's gocd platform
- Contributed to gocd's documentation for custom TLS configuration and dockerized tests
- Wrote load tests in Gatling, used results to drive adoption of Kafka-backed distributed server architecture

LittleSis, Software Engineer   2015-03-01-2015-06-01

https://littlesis.org

- Catalyzed migration from monolithic legacy code base to modular, testable design by designing and supervising port of one feature slice from PHP/jQuery to Rails/React
- Implemented React-based user interface for vizualizing corporate power networks as 'slide decks' of interactive maps interspersed with text
- Supervised redesign of editing interface for network maps

Recurse Center, Autodidact   2014-11-17-2015-02-16

https://recurse.com

- Mastered basic best practices in functional programming in Scala and JavaScript
- 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
- Wrote Node app for parsing and storing real estate data using a recursive interpreter pattern to enhance extensibility
- Completed readings and exercises on algorithms, data structures, function composition, monads, concurrency, and recursion

BK Shift, Software Engineer   2014-01-01-2014-11-07

- Learned full-stack web development, test-driven development, and agile project management
- Learned Ruby and built full-stack Rails app in 3 months
- Automated conflict-checking and shift allocation procecures
- Reduced 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 to facilitate budgeting decisions

Occupy Wall Street, Activist & Researcher   2011-09-17-2013-05-01

- 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

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EDUCATION

Harvard University   2000-09-01-2007-06-01

BA Performance & Media Studies

- Summa Cum Laude Thesis   o   High Honors in Major

SKILLS

Languages *(Master)***:** Scala, Java, JavaScript, Ruby, Racket

Areas of Expertise *(Master)***:** Functional Programming, Agile Development, Full-stack Web Development, Mobile Development, Network Programming, Automated Testing, Object-Oriented Programming, Reactive Programming, React/Redux, React-Native, ES6, Ruby-on-Rails, Continuous Delivery, AWS