Rachel Fong (rfong)

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http://rfong.github.io

Always making. Enthusiastic about reverse engineering things I've never seen before, solving non-first-world problems, and code maintainability.

WORK EXPERIENCE

OpenAI, Software engineer — *Oct 2016–May 2017*
- Building infrastructure, simulations & tools, procedural data generation, and physical rigs for robotics AI research

Locu/GoDaddy, Senior software engineer — *Jan 2016–Apr 2016*
Software engineer — *May 2014–Jan 2016*
- Automatic content extraction from raw websites, and products for website autogeneration and templating
- Built internal tools, auto data quality pipeline, and several products to improve listings propagation and site building

Techstars, Hackstar (W14 session) — *Jan 2014–Apr 2014*
- Engineering & product consulting for 12 early stage startups
- Assisted in running Techstars accelerator program & Demo Day

Lattis, CTO — *Oct 2013–Jan 2014*
- Spreadsheet-like web access to portable RDBMS functionality

Lengio, Software engineer — *June 2013–Sept 2013*
- First hire. Developed NLP backend to autogenerate contextual ESL learning curricula from user-uploaded documents.

Bluefin Labs, Software engineer — *June 2012–Jan 2013*
- Built same-day analytics for consumer responses to TV ads.

INTERNSHIPS

Facebook (2011) - Facebook Places search engine infrastructure

Monster.com (Winter 2011) - Automated related job suggestions

Endeca (2010) - SQL-like data filters in schemaless data engine

Stanford University (2007) - OpenGL laparoscopic suturing simulator; built knot detection, physics, 3D models, & haptic interface

EDUCATION

Massachusetts Institute of Technology (2008–2012)
B.Sc. in Computer Science

Research – Clinical NLP - topic extraction and sentiment analysis (OMCS group), gradient 3D printers (Mediated Matter group)

Activities – admissions blogger, The Tech, Technique

ERRATA

MIT Admissions, Engineering Advisory Board — *2014–present*
Educational Council — *2014–present*

SKILLS

Python, full-stack web (Django, Rails, devops/deploy/infra, Angular, React, JS, UI/UX, etc). Rusty: C++/C, Java

Data engineering/munging, fast end-to-end prototyping, product generalist

Photography, basic mechanical design & fabrication, event organization, writing, illustration & design, firespinning

FAVORITE PERSONAL PROJECTS

"Meta Markov Mashup" generator

Daft Punk programmable LED visor

$50 tabletop 3D scanner

American Sign Language crowdsourced reverse dictionary & community site

Lexical classifier for satire recognition

Toolpath visualizer + G-code generator desktop app for CNC 2.5D milling

Mechanical design & full fabrication of a human-rideable mecanum drive

RECOGNITIONS

2012 MIT Web Programming Competition (6.470) - 1st place

2009 MIT Battlecode (6.370) - 6th place

USA Computing Olympiad 2007-08 year - Gold division, top 15 nationally

FIRST Robotics, Davis Regional 2007 - Xerox Creativity Award