

# Rachel Fong (rfong)

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<http://rfong.github.io>

## WORK EXPERIENCE

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**OpenAI**, Software engineer *Oct 2016–May 2017*

- Building infrastructure, MuJoCo simulations, internal 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

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**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

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

Always making. Enthusiastic about reverse engineering things I haven't seen before, solving non-first-world problems, and code maintainability.

## SKILLS

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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, **illustration & design**, event organization, **firespinning**

## FAVORITE PERSONAL PROJECTS

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"**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 mecamum drive

## RECOGNITIONS

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2012 MIT Web Programming Competition (6.470) - 1<sup>st</sup> place

2009 MIT Battlecode (6.370) - 6<sup>th</sup> place

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

FIRST Robotics, Davis Regional 2007 - Xerox Creativity Award