

JOHN XIA

1660 Madison Ave 8G
New York, NY 10029
(650)283-6856
djx@uchicago.edu

EDUCATION

University of Chicago, Chicago, IL
BA: Physics, June 2014

EXPERIENCE

Center for Data Intensive Science, Chicago, IL

Software Engineer, April 2015 - Aug 2015

- Architected and built a system to easily run analytics on NASA and NOAA data
- Used Hadoop and Spark to analyze NASA and NOAA data

University of Wisconsin-Madison, Madison, WI

Associate Research Specialist, October 2014 - March 2015

- Built nuclear cross-section library generator in Python
- Generated online documentation for said project using Sphinx

Heritage Chinese Center, Mountain View, CA

Software Developer, June 2014 - April 2015

- Contributed to educational HTML5 webapp designed as supplement to Chinese textbooks
- Built HTML5 games for vocabulary training using Phaser.js
- Wrote Django app to interface between PostgreSQL database on AWS and client-side app
- Helped develop custom in-browser Chinese handwriting recognition to suit pedagogical needs

Mission Street Manufacturing, Santa Barbara, CA

Software Developer, June 2013 - August 2013

- Wrote model processing code for cloud 3D printing server
- Administered printing server on AWS
- Created software interface between Raspberry Pi, Printbot Jr., and printing server

FLASH Center for Computational Science, Chicago, IL

Research Assistant, October 2012 - June 2014

- Contributed to PyNE, an open-source nuclear engineering toolkit written mostly in Python
- Constructed infrastructure for accessing and processing nuclear data
- Optimized data parsing for speed using Cython

SKILLS

Languages: Proficient with Python, Haskell, JavaScript, HTML5/CSS, L^AT_EX

Tools: Linux, Git, Hadoop, Spark, PostgreSQL, PostGIS, AWS