

JOHN XIA

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EDUCATION

University of Chicago, Chicago, IL
BA: Physics, June 2014
GPA: 3.56/4.00

EXPERIENCE

University of Wisconsin-Madison, Madison, WI
Associate Research Specialist, October 2014 - Present

- Built nuclear cross-section library generator

Heritage Chinese Center, Mountain View, CA

Software Developer, June 2014 - Present

- Contributed to educational HTML5 webapp designed as supplement to Chinese textbooks
- Wrote Django app to interface between 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 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
- Built infrastructure for accessing and processing nuclear data

Exploratorium, San Francisco, CA

Tinkering Studio Volunteer, June 2011 - present

- Design and manufacture lasercut wood and plastic parts with SolidWorks
- Participate in design, testing, building, and maintenance of Tinkering Studio activities

Kasevich Group, Stanford, CA

Research Assistant, June 2012 - September 2012

- Prototyped, designed, and implemented PCB laser frequency locking system
- Built a set of heaters to increase fiber modulator efficiency

LEADERSHIP

Big Projects, Max Palevsky Scavenger Hunt, University of Chicago, May 2012 - June 2014

- Design whimsical creations such as drink-mixing piano and mechanized campus map
- Organize and build multiple projects in 4 days with extremely limited materials

Robotics Team Captain, Palo Alto High School, Palo Alto, CA, August 2009 - June 2010

- Organized and trained a team of students to compete in the *FIRST* Robotics Challenge
- Collaborated with other students to design and build successful robot in six weeks

SKILLS

Software: Proficient with Python, JavaScript, Linux, L^AT_EX, C, Cython, SolidWorks, Photoshop, OpenSCAD, and Arduino