Xiaoyue Zhang

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Work Experience

Feb 2016 | Google
Software Developer
Satellite imagery analytics. Used Go, Python, Appengine, Polymer, and Spanner.

July 2015 | Astral Dynamics
Software Developer
Made a web app that collects data for a psychology study and worked on a complex data analysis tool. Used technologies including R, Elm, Redis, React, Angular, Grunt, Flask, and Sass.

April 2015 – Sept 2014 | American Conservation Experience
Americorps Member
Worked on projects that require back country camping and wilderness survival. Work included invasive species control, trail building and maintenance, rock work, and revegetation. Became chainsaw certified and accumulated 200+ hours of chainsaw experience.

Jan 2015 | MIT D-Lab
Lab Assistant
Created lab kits for a class that teaches teams of students from various backgrounds how to design and deploy kits for making medical equipment. Worked with many sensors, Arduino products, and Ardunio extensions

Fall-Spring 2013 | Massachusetts Institute of Technology
Teaching Assistant
Assisted the professor in teaching and managing Mathematics for Computer Science (6.042j). Oversaw graders and lab assistants, was in charge of keeping track of student performance and assigning grades for the entire class, and composed online courseware for the edX platform.

Summer 2013 | Vecna Technologies
Software Intern
Created a web applet for visualizing and searching patient medical records in an intuitive and convenient manner. This involved both client side and server side work.

Summer 2012 | MIT Lincoln Laboratory
Undergraduate Researcher
Designed and created circuitry for an autonomous underwater vehicle that will act as a charging station for larger submarines. Worked heavily on sensors and power electronics.

Summer 2011 | Women's Technology Program
Residential Tutor
Tutored talented high school girls in Electrical Engineering and Computer Science, designed assignments and labs, lived in residence halls to guide students' study habits and help create a safe and friendly atmosphere.

Summer 2010 | MIT Lab of Manufacturing and Productivity
Student Researcher
Researched artificial intelligence with a focus on natural language processing and natural language processor design. Developed MySQL databases and automated data collection tools for large language dictionaries. Built front-end using PHP/MySQL and JavaScript allowing for accurate and fast searching.

Awards

Winter 2012 — Mobile Autonomous Systems Laboratory (MASLab)
2nd Place
MASLab is a month long competition where teams build robots that must navigate a course and play a game with an opposing team completely autonomously, using computer vision and data from sensors.

Education

June 2014 — Bachelor of Science, **Massachusetts Institute of Technology**
Primary Major: Electrical Engineering and Computer Science | Advisor: Prof. Albert Meyer
Secondary Major: Mathematics
Concentration: Music

Skills

Languages:	(fluent) English, (intermediate) Spanish, Mandarin Chinese
Computer (Proficient):	Python, Go, Java, Javascript
Computer (Experience in):	PHP, Scheme, MySQL, Haskell, C++, Arduino, Matlab, C, Linux, Elm, HTML, CSS, Sass, Polymer, React, Angular, jQuery, Appengine, Google Cloud Platform, LaTeX, Processing, Assembly, Photoshop, GIMP, MaxMSP
Machining:	Machine shop, power tools, laser cutter, water jet, precision machining, CNC, CAD
Outdoors:	Wilderness First Aid, CPR, Chainsaw, Haul Systems (climbing/rescue), Winter Survival, Bicycle repairs

Interests and Activities

Technology, STEM Education
Bicycle Touring, Mountaineering, Climbing, Travelling
Drawing, Murals, Violin