

Michelle D. Zhang

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Education

Barnard College · Columbia University

Bachelors of Arts in Computer Science, Cum Laude, May 2015

GPA: 3.76. Took a Computer Science major that focused more on theory and less on software engineering. Languages and tools of choice included **Java**, **C**, **Python**, **git**, and standard **UNIX command line** tools (make, vim, gcc, grep, etc.). Completed both Software Systems and Applications tracks. Regularly indulged in **Japanese** studies.

Experience

Abacus Labs, Inc

Full-Stack Software Engineer, *June 2015 - present*

Hired as the 7th employee, architect and engineer features end-to-end for an expense management company using **Node.js**, **Express**, **AngularJS**, **HTML**, **Stylus**, **MySQL**, **Redis**, and **git**. Improved expense search and filter capabilities using **Algolia**. Built new team management page to better support large companies. Build integration between Abacus and **Salesforce** using **jsforce** (and a little **Zapier** and **Slack** on the side) to assist our Sales and Marketing teams. Added ability to send and receive payments through Abacus, save searches, resubmit denied expenses, change manager for an expense, etc. Write tests using **mocha**, **chai**, and **supertest**. Collaboratively form and adhere to code best practices and standards. Track metrics using **Datadog** and **statsd**.

Whisk (formerly Zypsee, Inc)

Software Engineering Intern, *May 2014 - May 2015*

Hired as a summer intern and then continued to work remotely in my senior year of college, engineered solutions for an online black car dispatching company. Built a service using **Groovy on Grails** that let operators and drivers visualize areas of high mobile app user demand and low or clustered driver coverage throughout New York City and tools to help them redistribute coverage accordingly. Built a web page using **AngularJS 1.2**, **HTML**, and **CSS** that let users reserve rides through Whisk, update their reservations, and view their past rides. Built a web page that let concierges reserve rides on behalf of other users using **jQuery**. Had every commit to **SVN** reviewed thoroughly on **Reviewboard** by another software engineer or engineering intern.

The Zhirong Bao Lab, Developmental Biology Program, Memorial Sloan-Kettering Cancer Center

Programming Assistant, *December 2013 - May 2014*

Hired to work part-time and come in once per week, engineered features for AceTree, a tool for lineaging and visually analyzing the embryogenesis of *C. elegans* (a very popular worm). Built a feature that tracked and displayed the movement of cells during embryogenesis using **Java 1.5** and the **Java3D** API. Built a feature that overlaid a 3D rendering of the embryo on a 2-color image used to track gene expression.

COMS 1004 Intro to CS/Programming in Java, Computer Science Department, Columbia University

Teaching Assistant, *September 2013 - May 2014*

Held weekly office hours, graded weekly theory and **Java** programming assignments, and answered student questions through an online Q&A platform for an introductory computer science class of over 400 students.

Artemis Project, Columbia University

Co-coordinator, *March 2013 - August 2013*

Worked with three other coordinators to create a five-week curriculum to teach various computer science topics to rising 9th and 10th grade girls. Acted as lead coordinator on **Python**, **HTML/CSS**, and binary numbering system lessons.

Projects

mdzhang.com, Personal Site

Webmaster, *December 2014 - present*

Built a personal site using **Jade**, **Sass**, **Coffeescript**, and **git**. Managed build process using **Grunt** and deploy process using **bash** scripts and **s3cmd**. Originally had the site setup using Github pages, but wanted to play around with **AWS** so used **Route 53** to register mdzhang.com and **S3** to host static site files. Also used the site to learn about **SEO** (schema.org) and **social meta tags** (Open Graph, Twitter Cards).