Amy Zhang

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EDUCATION

February 2020
February 2021

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

Bachelor of Science in Computer Science and Engineering (6-3).

Candidate for **Master of Engineering** in Computer Science, Graphics and Human-Computer Interfaces.

Favorite classes: Performance Engineering of Software Systems (6.172), Interactive Data Visualization (6.894).

EXPERIENCE

Mountain View, CA
Summer 2019

GOOGLE, Software Engineering Intern

Worked in Java on short, answer-card style results in the drop-down suggestions of the search box.

Coded a redesign of weather answers and ran a live experiment deployed to 4% of all daily active users.

Implemented a new type of sports answer, adding support for sports played by individual athletes and more complicated designs that span multiple lines in the search box.

Refactored sports answers to make it easier to add support for new sports and modify existing sports.

Cambridge, MA
Spring '19 - present

MIT 6.0001 and 6.0002, Teaching Assistant

Main duties include hiring, training, and managing ~50 lab assistants each semester.

Runs office hours and beta tests exams for MIT's introductory programming class.

Cambridge, MA
Spring '19 - present

MIT CSAIL, Research Assistant

Database group at Computer Science and Artificial Intelligence Laboratory (CSAIL).

Creating a user interface for an interactive data visualization system.

San Francisco, CA
January 2019

TWITCH, Software Engineering Extern

Worked on an R&D project to reduce end-to-end latency on the transcoding team.

Implemented a communication channel between server and client in C++.

Added multi-rendition support and ability to switch between streaming qualities.

Cambridge, MA
Summer 2018

AKAMAI TECHNOLOGIES, Software Engineering Intern

Worked on a full stack web application for internal use by release engineers.

Ported web pages from Perl to Ruby on Rails 4 for the back end and AngularJS for the front end.

Wrote APIs and integrated them into multiple web pages, fixed miscellaneous bugs.

Santa Monica, CA
January 2018

DRONEBASE, Software Engineering Extern

Coded a responsive redesign of `dronebase.com/pilots` using Middleman, CoffeeScript, Sass.

Optimized webpage for mobile and web.

First intern at early stage startup.

Bangalore, India
Summer 2017

SHELL, Research Intern

Developed a screening program that uses machine learning to identify compounds with desirable fuel properties.

Modeled random forest classification using scikit-learn.

Plotted ROC curves, achieving 0.7 AUC.

LANGUAGES

Python, Java, C, C++, JavaScript, HTML, CSS.

INTERESTS

Design and Fine Arts, with 10 years of fine arts training in oil painting, sketch, watercolor.

Webmaster for MIT's Chinese Students Club and Alpha Chi Omega (former).