

MADELINE M. ZHANG

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EDUCATION

Massachusetts Institute of Technology (Cambridge, MA)

Aug '16 - Feb '20

- B.S. Computer Science and Engineering (6-3)

WORK EXPERIENCE

Google (Mountain View, CA) - Software Engineer

Sept 2020 - present

- Launched Search urgent care feature (wrote C++ service to ingest and serve partner data from Knowledge Graph, built frontend with Typescript / HTML) to 121,000 daily users
- Migrated Search hotlines feature (rewrote C++ query triggering logic, built new classification models) to avert removal of 5 features in 22 languages upon legacy framework deprecation
- Optimized Image Search viewer to decrease latency by 2.31% on mobile
- Coded end-to-end C++ pipeline to validate partner provided data vs. scraped web results

Amazon (Seattle, WA) - Software Development Engineer Intern

May - August 2020

- Created pipeline clustering Alexa Search trending news using SpaCy and NLP
- Implemented coverage calculation comparison between Google Trends and Alexa Web news

IBM (Littleton, MA) - Software Developer Intern

Feb - May 2020

- Built Selenium and Javascript test framework for IBM Planning Analytics (TM1 Web)

Microsoft (Cambridge, MA) - Software Engineering Intern

Jan - Feb 2019, Jan - Feb 2020

- Created Roslyn attribute analyzers for C# and Visual Basic Xamarin bindings

Morgan Stanley (NYC, NY) - Summer Technology Analyst

Jun - Aug 2019

- Coded Qlikview dashboard and designed data model schema for trade liquidity calculations
- Programmed Python cursor tool to extract trade records from SQL database into Pandas

MIT D-Lab (Cambridge, MA) - Undergraduate Researcher

Sept 2018-Dec 2019

- Developed Bayesian modeling algorithms and created Django server to diagnose pulmonary disease

Dimensional Insight (Cambridge, MA) - Software Engineering Intern

Jun-Aug 2018

- Implemented filtering function of data points on map portlet using openlayers3, Javascript, and d3

PROJECTS

HIITify: Google Chrome extension that customizes your favorite Spotify songs to match your HIIT workout with custom BPMs for workout and rest intervals

Foosrank: ELO-based webapp that stores foosball players' info & statistics & computes rankings

Zummurod: VR flying game for Oculus Rift that experiments with realistic flapping and gliding motions as a movement mechanic to investigate the effects of vertigo on immersion

Easyfill: mobile app built at PerkinsHack that helps visually impaired people fill out forms using OCR

LEADERSHIP

Google: Search accessibility champion, new grad community lead, university outreach event speaker

MIT: Marketing Director - Machine Intelligence Community | Dev Committee Exec - Code for Good Consulting | Mentor - CodeIt | Director - MIT ATI SATPrep | President - MIT Model UN | PR Director - DPhiE | Publicity Chair, Webmaster - Syncopasian | Microsoft Student Partner

TECHNICAL SKILLS AND INTERESTS

Languages Python | Java | C++ | C# | SQL | Javascript | Lua | Typescript | HTML and CSS

Software & Tools LaTeX | MATLAB | Microsoft Azure | Corona | MongoDB | Node.js | Unity | Pandas