

MADELINE M. ZHANG

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EDUCATION

Massachusetts Institute of Technology (Cambridge, MA) *Aug '16 - Feb '20*
- Bachelor of Science in Computer Science and Engineering (6-3)
- Selected classes: Design & Analysis of Algorithms, Computational Cognitive Science, Advanced Game Studio, Machine Learning, Hacking XR, Software Construction, Software Systems for Data Science
- Grader for MIT's Computational Cognitive Science course (6.804 / 9.66)

WORK EXPERIENCE

Google (Palo Alto, CA) - Software Engineer *Sept 2020 - present*
- Software Engineer on the Google Health (Consumer, Screeners & Actions) team

Amazon (Seattle, WA) - Software Development Engineer Intern *May - August 2020*
- Worked on clustering trending news for Alexa Search content recommendation 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 2020*
- Created Roslyn attribute analyzers for 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

Microsoft (Cambridge, MA) - Software Engineering Intern *Jan - Feb 2019*
- Wrote Roslyn (.NET Compiler Platform) analyzers for C# and Visual Basic for Visual Studio

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
- Created fill gauge and trellis chart as portlets to represent data

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

Solar Bear: 2D space platformer game that uses gravitational attraction as a movement mechanism

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

Uprooted: web app that helps MIT students find temporarily vacant dorm rooms to stay in

LEADERSHIP

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# SQL JSON Javascript Lua HTML and CSS
Software & Tools	LaTeX MATLAB Microsoft Azure Corona MongoDB Node.js Unity Pandas
Awards	2016 Ocean Science Bowl National Champion