Helen He

www.mit.edu/~hmhe
hmhe@mit.edu | 832.278.3929

Education

Massachusetts Institute of Technology B.S. in Computer Science & Engineering — 2016-2020

Technical GPA: 4.8/5.0

> 6.006 | Algorithms
> 6.004 | Computation Structures
> 6.009 | Fundamentals of Programming
> 6.042 | Math for CS
> 6.036 | Machine Learning
> 6.S08 | Embedded Systems
> 8.033 | Relativity
> 14.02 | Macroeconomics
> 14.03 | Microeconomics/Public Policy

Work Experience

Koble – *Software Engineering Intern* — Fall 2017

> Improve matching algorithm between businesses and content relevant to their interests

MIT 6.009 Fundamentals of Programming – *Lab Assistant* — Fall 2017

> Teach and advise students on assignments in an intermediate Python programming class

CSAIL Haystack Group – *Undergraduate Researcher* — Fall 2017

> Work on a tool for recursive summarization of discussion forums
> Improve clustering algorithm and implement dynamic/concurrent user input in Django

Jana Care – *Software Engineering Intern* — Summer 2017

> Overhauled patient- and doctor- facing health tracker interfaces in Javascript/Angular4
> Startup coding experience involving rapid prototyping, fullstack dev, machine learning (created chatbot for patient concerns) and deployment using Jenkins

Reaction Mechanism Generator Group – *Undergraduate Researcher* — Spring 2017

> Introduced new user account-based file handling method for RMG backend, archiving structure, and social authentication in Django

Brain Power – *UI/UX Intern* — January 2017

> Implemented user-friendly improvements in website, backend portal, and mobile apps

Skills

Python, Java, C++, Javascript, JQuery, Django, MySQL, NodeJS, AngularJS, HTML/CSS, Git, command line

Projects

TeensyWatch – *Teensyduino smartwatch*

> Created a functional, efficient smartwatch and its apps (including email and stock trends) with high battery life and low memory parsing of strings in mind; used Python and C++

ColoVR – *Google Daydream virtual reality 3D coloring/painting experience*

> Used Unity and C# to create a scene and implemented shading interactions through ray tracing

ScannerINo – *Android receipt scanner*

> Read and archived purchase receipts using Optical Character Recognition and Google Drive API

Awards

HackMIT – *Google Cardboard Development Prize* — 2016

National Merit – *National Merit Scholar; Engineering Scholarship Recipient* — 2016

NCWIT – *Aspirations in Computing Award Recipient* — 2015