

Francis Chen

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MIT S.B. in Computer Science and Engineering (CSE)
MIT M.Eng. Candidate in CSE - 6/2016 (expected)
GPA: 4.6/5

Skills

Languages: Python, Scala, HTML/CSS/JavaScript, Java, C++, C, Perl

Key coursework: Elements of Software Construction, Performance Engineering of Software Systems, Design and Analysis of Algorithms, User Interface Design and Implementation, Computer System Engineering

Experience

Software Engineering Summer Intern in Advertising Technology, A9.com 6/2015 - 8/2015

- › Developed machine learning pipeline for analysis of algorithms used in revenue prediction and alarms
- › Pioneered data-driven methodology in problem area, involving TB-sized datasets and using Scala on Spark
- › Built winning project in intern hackathon, creating innovative visual search application on team of four

User Experience (UX) Intern, OutLearn Inc. 1/2015

- › Designed mockups for creation, discovery, and management of educational content, using UXPin
- › Collaborated with company leadership, fellow designer, and engineers, adopting Agile methodology

Technology Associate Summer Intern, Bridgewater Associates 6/2014 - 8/2014

- › Built a strategic data ingestion tool for the company's next-generation research platform
- › Assessed relevant business problems, designed solution, and implemented solution in Scala

Platform Infrastructure Engineering Summer Intern, Akamai Technologies 6/2013 - 8/2013

- › Built a software tool for hard drive error detection intended for over 10,000 Windows servers
- › Designed, developed, and tested software tool, using both Linux and Windows and coding in Perl

Activities

Teaching Assistant for Oral Communication at MIT since 9/2015

- › Leading 4 sections of around 8 students each, providing public speaking coaching and feedback

Gordon Engineering Leader, MIT Gordon Engineering Leadership (GEL) Program 4/2013 - 5/2015

- › Completed two-year leadership curriculum, earning Advanced Certificate of Engineering Leadership
- › Shaped first year GEL student experience actively as mentor and Assessment Team member

Teaching Assistant for Engineering, Innovation, and Design at MIT 9/2014 - 5/2015

- › Wrote documentation and delivered lectures to explain technical course content
- › Answered student questions both in-person and online, serving approximately 60 students over 2 semesters

Undergraduate Researcher, MIT Weiss Lab for Synthetic Biology 6/2013 - 8/2014

- › Designed high-throughput microfluidic DNA assembly system, involving both hardware and software
- › Earned Technical Report Award from department's Advanced Undergraduate Research Program

Last revised on 9/10/2015