

Daniel Mendelsohn

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github.com/dmendelsohn

EDUCATION

Massachusetts Institute of Technology, Class of 2015

BS in Electrical Engineering and Computer Science

GPA: 4.9/5.0

Cambridge, MA

September 2011 – June 2015

- *Relevant Courses:* Artificial Intelligence; Multimodal UI; Robotics; Constructive Computer Architecture; Digital Systems Lab; Microcontroller Lab; Algorithms I & II; Circuits and Electronics; Linear Algebra
- *Teaching:* Teaching Assistant (Computation Structures); Lab Assistant (Python); Tutor (Various subjects)

Stuyvesant High School

GPA: 3.97/4.00 SAT: 2380

New York, NY

September 2007 – June 2011

Awards

- USAMO - United States of America Mathematical Olympiad (three time qualifier, 2009-2011)
- American Mathematics Competition - AMC 10 (only perfect score in New York State, 2009)
- MATHCOUNTS – 1st place in New York State, 41st in US (2007)

EXPERIENCE

TruMid Financial

Strategy Consultant

New York, NY

September 2015 – December 2015

- Designed and implemented algorithm to determine bond clearing prices based on internal data
- Designed and implemented algorithm to determine expected bid-ask spread given external market data
- Built a comprehensive Python code base for making financial models and performing statistical analyses

Google

Technical Solutions Engineering Intern

Mountain View, CA

June 2014 – August 2014

- Built an interactive visual exhibit for Google's client experience centers
- Prototyped large, distributed hardware systems with Arduinos and Arduino peripherals
- Demonstrated proof-of-concept Arduino mini-projects featuring motors, servos, various sensors and LEDs

Software Engineering Intern

May 2013 – August 2013

- Built a generic Unicode character recognizer using Google's OCR toolkit
- Designed and implemented clean, scalable backend systems

Jane Street Capital

Trading and research intern

New York, NY

January 2013

- Analyzed statistical analysis techniques crucial to predicting financial markets
- Built analysis model in R
- Learned how to use new languages and applications very quickly (OCaml, R, Excel, Bloomberg)

Quick Technologies

Android Development Intern

Boston, MA

June 2012 – August 2012

- Programmed Android app that has more than 100k downloads as part of three-person development team
- Designed user-ranking algorithm for the app's leaderboard.

TECHNICAL SKILLS

- *Languages:* Java, Python, C++, Assembly, Verilog, Bluespec
- *Technologies/Tools:* Android, Git, LaTeX, Arduino, FPGA, 8051 Microcontroller
- *Hardware:* A wide variety of sensors, as well as many LED technologies and electro-mechanical devices

INTERESTS

- Varsity fencing at MIT and Stuyvesant (as captain), eight years of experience
- Competition math (including teaching a math team class at Stuyvesant High School in 2011)
- Climbed Mount Kilimanjaro – reached Africa's highest peak (19,340 feet AMSL)