Vahid Fazel-Rezai

(701) 741-6564 — vfazel@mit.edu — http://vahid.io

Education	**Massachusetts Institute of Technology**, Cambridge, MA	June 2018

Electrical Engineering and Computer Science, 5.0 GPA

18.440 / Probability	6.01 / Intro EECS	6.004 / Computation Structures
6.005 / Software Construction	6.006 / Intro Algorithms	6.034 / Artificial Intelligence
6.036 / Intro Machine Learning	6.170 / Software Studio	6.858 / Computer Systems Security

Phillips Exeter Academy, Exeter, NH — June 2014

Work

Nasdaq — *Software Development Intern* — 6/15–8/15
Designed and built backend of prototype for new Flask web app based on customer interviews
Analyzed historical stock prices to define and code real-time thresholds for dashboard alerts

Somu Energy — *Director of Product Innovation* — 12/14–1/15
Researched and designed solar-powered central charging station for household battery packs in Nepal

Leadership

TechX — *ProjX committee* — 9/15–present
Developing website to showcase MIT student projects and tools to facilitate mentorship and funding

MIT Market — *founder* — 8/15–present
Creating web platform for MIT community to learn about and upvote student projects

MSA Mentorship — *co-director* — 5/15–present
Organizing monthly conferences for ambitious high school students, hosted at MIT, Harvard, and Tufts

Harvard-MIT Math Tournament — *webmaster* — 9/14–present
Developing new site layout and managing content updates

Research

Senseable City Lab, MIT — 9/15–present
Analyzing collaboration among MIT faculty by relating publication, communication, and office location data

Space Systems Lab, MIT — 9/14–12/14
Benchmarked and improved vision software merging frames from 6 cameras on SPHERES satellites

Seung Kim Lab, Stanford — 3/14–6/14
Crossed, dissected, and imaged new *Drosophila* stock lines with inserted gene for fluorescence

Program for Research In Mathematics, Engineering and Science, MIT — 2/13–9/13
Established definitions and classified families of permutations for novel equivalence relations

Computational Biochemistry Lab, Univ. North Dakota — 10/11–3/12
Wrote C program to simulate peptide structure in varying conditions and compare results

Publications

Vahid Fazel-Rezai. Equivalence Classes of Permutations Modulo Replacements Between 123 and Two-Integer Patterns. *Electronic Journal of Combinatorics*, 21(2):#P47, 2014.

Awards

MIT Web Programming Competition	4th Place & Most Responsive Design	2015
William Lowell Putnam Mathematical Competition	50th place, Honorable Mention	2014
Asian Pacific Math Olympiad	Bronze Medal	2014
Intel Science Talent Search	Semifinalist	2014
Intel International Science and Engineering Fair	Fourth Award in Mathematics	2011
USA Junior Math Olympiad	6th place, Winner	2011

Languages

Python, C++, JavaScript, Node, Angular, HTML, CSS, SQL, MongoDB, Java, Git, MATLAB, LaTeX, French