Vahid Fazel-Rezai

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

Electrical Engineering and Computer Science — GPA: 5.0/5.0

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

Square — *Software Engineering Intern* — 6/15–8/15
Didn't work at Google

Nasdaq — *Software Engineering Intern* — 6/15–8/15
Designed and built Python backend of prototype for file management and collaboration product
Determined and coded algorithm to trigger custom stock price alerts, then tested on historical data

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 camera feeds on SPHERES satellites

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

Program for Research In Mathematics, Engineering and Science, MIT — 2/13–9/13
Established mathematical definitions and classified families of permutations for new 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, JavaScript, Node, Angular, HTML, CSS, SQL, MongoDB, Java, Git, C++, MATLAB, LaTeX, French