

# Vahid Fazel-Rezai

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Education	<b>Massachusetts Institute of Technology</b> , Cambridge, MA Electrical Engineering and Computer Science, 5.0 GPA 18.440 / Probability 6.005 / Software Construction 6.036 / Intro Machine Learning	6.01 / Intro EECS 6.006 / Intro Algorithms 6.170 / Software Studio	6.004 / Computation Structures 6.034 / Artificial Intelligence 6.858 / Computer Systems Security	June 2018
	<b>Phillips Exeter Academy</b> , Exeter, NH			June 2014
Work	<b>Nasdaq</b> , Boston, MA — <i>Software Development Intern</i> 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			6/15–8/15
	<b>Somu Energy</b> , Salt Lake City, UT — <i>Director of Product Innovation</i> Researched and designed solar-powered central charging station for household battery packs in Nepal			12/14–1/15
Leadership	<b>TechX</b> — <i>ProjX committee</i> Develop website to showcase MIT student projects and tools to facilitate mentorship and funding			9/15–present
	<b>MIT Market</b> — <i>founder</i> Create web platform for MIT community to learn about and upvote student projects			8/15–present
	<b>MSA Mentorship</b> — <i>co-director</i> Organize monthly conferences for ambitious high school students, hosted at MIT, Harvard, and Tufts			5/15–present
	<b>Harvard-MIT Math Tournament</b> — <i>webmaster</i> Develop new site layout and manage content updates			9/14–present
Research	<b>Senseable City Lab</b> , MIT Analyze collaboration among MIT faculty by relating publication, communication, and office location data			9/15–present
	<b>Space Systems Lab</b> , MIT Benchmark and improve vision software merging frames from 6 cameras on SPHERES satellites			9/14–12/14
	<b>Seung Kim Lab</b> , Stanford Cross, dissect, and image new <i>Drosophila</i> stock lines with inserted gene for fluorescence			3/14–6/14
	<b>Program for Research In Mathematics, Engineering and Science</b> , MIT Establish definitions and classify families of permutations for novel equivalence relations			2/13–9/13
	<b>Computational Biochemistry Lab</b> , Univ. North Dakota Write C program to simulate peptide structure in varying conditions and compare results			10/11–3/12
Publications	Vahid Fazel-Rezai. Equivalence Classes of Permutations Modulo Replacements Between 123 and Two-Integer Patterns. <i>Electronic Journal of Combinatorics</i> , 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			