

Vahid Fazel-Rezai

<http://vahid.io>

vfazel@mit.edu

701-741-6564

305 Memorial Dr., Cambridge, MA 02139

Education	Massachusetts Institute of Technology , Cambridge, MA Electrical Engineering and Computer Science, 5.0 GPA 18.440 / Probability 6.005 / Software Construction 6.036 / Intro Machine Learning Phillips Exeter Academy , Exeter, NH Linear Algebra Electronics Cryptography Game Theory Intro Real Analysis	June 2018 June 2014
Work	Nasdaq — <i>Software Development Intern</i> Design and build backend of new Flask web app prototype, perform customer interviews Analyze historical stock prices to define and code real-time thresholds for dashboard alerts in web product Somu Energy — <i>Director of Product Innovation</i> Research and design solar-powered central charging station for household battery packs in Nepal Art of Problem Solving — <i>Grader</i> Grade and give written feedback for online programming and math problems	6/15–8/15 12/14–8/15 9/14–12/14
Leadership	MIT Market — <i>founder</i> MSA Mentorship — <i>co-director</i> Harvard-MIT Math Tournament — <i>webmaster</i>	2015 2015 2014–2015
Research	Space Systems Lab , MIT Benchmark and improve vision software merging frames from 6 cameras on SPHERES satellites Seung Kim Lab , Stanford Cross, dissect, and image new <i>Drosophila</i> stock lines with inserted gene for fluorescence Program for Research In Mathematics, Engineering and Science , MIT Establish definitions and classify families of permutations for novel equivalence relations Computational Biochemistry Lab , Univ. North Dakota Write C program to simulate peptide structure in varying conditions and compare results	9/14–12/14 3/14–6/14 2/13–9/13 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. Presented at 2014 Mathematical Association of America Undergraduate Student Poster Session	
Awards	MIT Web Programming Competition 4th Place & Most Responsive Design William Lowell Putnam Mathematical Competition 50th place, Honorable Mention Canadian Math Olympiad 7th place, Honorable Mention Asian Pacific Math Olympiad Bronze Medal Intel Science Talent Search Semifinalist Intel International Science and Engineering Fair Fourth Award in Mathematics USA Junior Math Olympiad 6th place, Winner	2015 2014 2014 2014 2014 2011 2011
Languages	Python, C++, JavaScript, Node, Angular, HTML, CSS, SQL, MongoDB, Java, Git, MATLAB, LaTeX, French	
Projects	http://vahid.io	