Vahid Fazel-Rezai

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Education	**Massachusetts Institute of Technology**, Cambridge, MA (expected) June 2018

Massachusetts Institute of Technology, Cambridge, MA (expected) June 2018
Electrical Engineering and Computer Science Major GPA: 5.0/5.0
6.034 / Artificial Intelligence 6.036 / Intro Machine Learning 6.046 / Analysis of Algorithms
6.170 / Software Studio 6.858 / Computer Systems Security 6.875 / Cryptography & Cryptanalysis

Phillips Exeter Academy, Exeter, NH June 2014

Work

Google — *Software Engineering Intern* (expected) 5/16—8/16
Project has not yet been determined

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

ProjX — *director* 9/15—present
Managing committee of ten members who fund, guide, and promote 50+ student projects
Representing ProjX as a member of TechX executive committee

MIT Sandbox Fund — *student advisory board member* 1/16—present
Providing student perspective on running a $2 million fund to support student projects

Science Bowl — *co-founder and team captain* 11/13—5/14
Established new science bowl team and club, recruited members and held weekly practices

Research

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

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 6.170 Software Studio	Best Feature Set	2015
YHack	Datto 4K Challenge Winner	2015
MIT 6.148 Web Programming Competition	4th Place & Most Responsive Design	2015
William Lowell Putnam Mathematical Competition	50th place, Honorable Mention	2014
Canadian Math Olympiad	7th place, Honorable Mention (IMO alternate)	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 (MOSP participant)	2011

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

Projects http://vahid.io