Vahid Fazel-Rezai

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Education

Massachusetts Institute of Technology, Cambridge, MA — June 2018
Electrical Engineering and Computer Science — Major GPA: 5.0/5.0
6.004 / Computation Structures — 6.034 / Artificial Intelligence — 6.036 / Intro Machine Learning
6.046 / Analysis of Algorithms — 6.170 / Software Studio — 6.858 / Computer Systems Security

Phillips Exeter Academy, Exeter, NH — June 2014

Work

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

Project Portal — *founder* — 1/15—present
Developing a platform to increase visibility of student projects across campus programs

MIT Sandbox Fund — *student advisory board member* — 1/15—present
Providing student perspective on running two-millon-dollar fund to support student projects

TechX — *ProjX committee member* — 9/15—present
Funding and tracking student teams as they work on projects; hosting demo events

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

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

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 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