Vahid Fazel-Rezai

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Education

Massachusetts Institute of Technology, Cambridge, MA — (expected) June 2018
Double Major: Computer Science and Engineering, Math — Major GPA: 5.0/5.0

6.869 / Advances in Computer Vision	6.806 / Advanced NLP	6.170 / Software Studio (+TA)
6.875 / Cryptography & Cryptanalysis	6.867 / Machine Learning	6.034 / Artificial Intelligence
6.172 / Performance Engineering	6.828 / Operating Systems	6.046 / Analysis of Algorithms

Phillips Exeter Academy, Exeter, NH — June 2014

Work

Google — *Software Engineering Intern* — 5/16—8/16
Built web component in AdWords to display ad performance estimates in real-time
Decreased latency of backend services by migrating to improved tech stack

Nasdaq — *Software Engineering Intern* — 6/15—8/15
Designed and implemented an algorithm to trigger stock price alerts, validated by testing on historical data
Designed and built Python backend of prototype for file management and collaboration product

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—current
Leading committee of 15 members who fund, guide, and promote 70+ student projects per year
Member of TechX executive committee involved in high-level event planning

MIT Undergraduate Research and Technology Conference — *Paper and Poster Chair* — 5/16—current
Managing paper submission, review process, presentation, and publication for IEEE conference

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

Research

Space Systems Lab, MIT — 9/14—12/14
Benchmarked and improved vision software merging frames from 6 camera feeds on SPHERES satellites

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.

Kockel et al. A Drosophila LexA Enhancer-Trap Resource for Developmental Biology and Neuroendocrine Research. *G3: Genes, Genomes, Genetics*, Aug 2016.

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
USA Junior Math Olympiad	6th place, Winner (MOSP participant)	2011

Languages

Python, Java, C++, JavaScript, Node, Dart, Angular, HTML, CSS, SQL, Mongo, MATLAB, Farsi, French