Vahid Fazel-Rezai

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June 2018 Education Massachusetts Institute of Technology, Cambridge, MA Electrical Engineering and Computer Science, 5.0 GPA 6.01 / Intro EECS 18.03 / Differential Equations 18.440 / Probability 6.003 / Signals and Systems 6.004 / Computation Structures 6.005 / Software Construction 6.170 / Software Studio 6.006 / Intro Algorithms 6.036 / Intro Machine Learning Phillips Exeter Academy, Exeter, NH June 2014 Linear Algebra **Electronics** Cryptography Game Theory Intro Real Analysis Work Nasdaq - Software Development Intern 6/15-8/15 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 **Recharge Labs** – Director of Product Innovation 12/14-1/15 Research and design solar-powered central charging station for household battery packs in Nepal Art of Problem Solving — Grader 9/14-12/14 Grade and give written feedback for online programming and math problems Leadership MSA Mentorship — co-director 2015 Harvard-MIT Math Tournament — webmaster 2014-2015 Phillips Exeter Academy Science Bowl Team — captain and co-founder 2012-2014 Research Space Systems Lab, MIT 9/14-12/14 Benchmark and improve vision software merging frames from 6 cameras on SPHERES satellites Seung Kim Lab, Stanford 3/14 - 6/14Cross, dissect, and image new Drosophila stock lines with inserted gene for fluorescence Program for Research In Mathematics, Engineering and Science, MIT 2/13-9/13 Establish definitions and classify families of permutations for novel equivalence relations Computational Biochemistry Lab, Univ. North Dakota 10/11-3/12 Write 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. Presented at 2014 Mathematical Association of America Undergraduate Student Poster Session Awards William Lowell Putnam Mathematical Competition50th place, Honorable Mention 2015 MIT Web Programming Competition 4th Place & Most Responsive Design 2015 Asian Pacific Math OlympiadBronze Medal 2014 2014 2014 Intel International Science and Engineering Fair Fourth Award in Mathematics 2011 2011 Languages Python, C++, JavaScript, Node, Angular, HTML, CSS, SQL, MongoDB, Java, Git, MATLAB, LaTeX, French Projects http://vahid.io