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| Education | Massachusetts Institute of Technology , Cambridge, MA Double Major: Computer Science and Engineering, Math 6.034 / Artificial Intelligence 6.867 / Machine Learning 6.172 / Performance Engineering 6.046 / Analysis of Algorithms 6.806 / Advanced NLP 6.869 / Advances in Computer Vision 6.170 / Software Studio (+TA) 6.828 / Operating Systems 6.875 / Cryptography & Cryptanalysis Phillips Exeter Academy , Exeter, NH | (expected) June 2018 Major GPA: 5.0/5.0 June 2014 |
| Work | Google — <i>Software Engineering Intern</i> 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 — <i>Software Engineering Intern</i> 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 — <i>Director of Product Innovation</i> Researched and designed solar-powered central charging station for household battery packs in Nepal | 5/16–8/15 6/15–8/15 12/14–1/15 |
| Leadership | ProjX — <i>Director</i> 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 — <i>Paper and Poster Chair</i> Managing paper submission, review process, presentation, and publication for IEEE conference MIT Sandbox Fund — <i>student advisory board member</i> Providing student perspective on running a \$2 million fund to support student projects | 9/15–current 5/16–current 1/16–current |
| Research | Space Systems Lab , MIT Benchmarked and improved vision software merging frames from 6 camera feeds on SPHERES satellites Program for Research In Mathematics, Engineering and Science , MIT Established mathematical definitions and classified families of permutations for new equivalence relations | 9/14–12/14 2/13–9/13 |
| 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. Kockel et al. A Drosophila LexA Enhancer-Trap Resource for Developmental Biology and Neuroendocrine Research. <i>G3: Genes, Genomes, Genetics</i> , Aug 2016. | |
| Awards | MIT 6.170 Software Studio Best Feature Set YHack Datto 4K Challenge Winner MIT 6.148 Web Programming Competition 4th Place & Most Responsive Design William Lowell Putnam Mathematical Competition 50th place, Honorable Mention Canadian Math Olympiad 7th place, Honorable Mention (IMO alternate) Intel Science Talent Search Semifinalist USA Junior Math Olympiad 6th place, Winner (MOSP participant) | 2015 2015 2015 2014 2014 2014 2011 |
| Languages | Python, Java, C++, JavaScript, Node, Dart, Angular, HTML, CSS, SQL, Mongo, MATLAB, Farsi, French | |