| EVAN           | TEY  | tey@mit.edu<br>512–905–8664  | in O evantey14 evantey.me           |
|----------------|--|--|-------------------------------------|
| EDUCATION WORK | Massachusetts Institute of Technology M. Eng. in Computer Science – 5.0/5.0 B.S. in Physics and Computer Science – 4.7/5.0 Kensho – Part-Time Software Engineer  • Laid the foundation for estimating database using database statistics | )<br>se query costs under Kensho's GraphQL compiler                                    | May 2020<br>June 2019<br>Spring '19 |
|                | <ul> <li>Project Invent – Winter Extern</li> <li>Worked at an early-stage non-profit to be across the country</li> <li>Contributed to program design, strategy</li> </ul>  | ing invention education to teachers and students meetings, and fundraising development | Jan '19                             |
|                | Indeed – Software Engineer Intern  | n-making system to increase SEO acquisition for  | Summer '16                          |
| RESEARCH       | Generative Models for Stellar Spectra – Researcher, MIT  • Implemented and experimented with variational autoencoders and flow-based networks a stellar spectra models for my Master's thesis  |  | Mar '19 – May '20                   |
|                | Bayesian Modeling of Supernovae – Resea  • Developed and tested a hierarchical Bay lightcurves to better infer parameters abo  | yesian model for selection effects in supernovae                                       | Summer '18                          |
|                | <ul> <li>NuSTAR X-Ray Analysis of the Galactic</li> <li>Analyzed high energy spectra near the Galactic matter candidates with Python, Sherpa,</li> </ul>   | alactic Center to characterize and constrain dark                                      | Sep '17 – Jun '18                   |
|                | MIT Office of Open Learning – Data Scient • Prepared a student feedback tool for ins impacts student behavior with Flask and   | tructors to experiment on how various feedback   | Jun '17 – Jan '18                   |
|                | Mathworks at Texas State University – R  • Characterized negativity in hypergraph ciencies in neural / social / magnetic net   | structure to enhance our understanding of defi-  | Summer '14                          |
| PROJECTS       | ProSet proset.evantey.me  • Created a websocket-based multiplayer very press, React, and Node  | ersion of the card game ProSet with Mongo, Ex-   | Summer '20                          |
|                | Educational Telescope with VR  • Building a real 10" f/5 Dobsonian telescope telescope usage for use on cloudy nights  | be with additional sensors and a screen to emulate                                     | Spring '18                          |

• Used the design process to lead a team of six in creating a live classroom tool that reduces

• Interviewed teachers, then prototyped and tested several features before developing a sim-

 $\bullet$  Constructed a device to detect bad posture and give haptic feedback with flex sensors and

• Replicated and extended Google Brain's paper Learning to Protect Communications with

ple webapp to track users, questions, and confusion in the classroom

Consensus consensus evantey me

an Arduino in a team of six

Align

confusion between students and teachers

Concrete Convolutional Neural Network Cryptosystem

 $Adversarial\ Neural\ Cryptography\ with\ a\ team\ of\ three$ 

Spring '16

Spring '16

Fall '16

• Built a 3D laser scanner to generate and display a point cloud from an object using an FPGA • Rendered and allowed interaction with the point cloud through VGA output LASA UIL Study Site Fall '14 • Developed a quizzing website to help novice CS students learn general programming principles Parsed PDFs of computer science tests to a question database using MongoDB, Javascript, NodeJS, Jade, and JQuery Teaching Sep '19 - May '20 MIT Undergraduate Mathematics for Computer Science - Graduate TA Ran weekly office hours and interactive recitations on discrete mathematics Summer '19 MIT Spokes – Organizer & Participant • Biked across the country and taught STEM workshops at local schools / libraries with seven other MIT students Feb '16 - Jun '19 Educational Studies Program – Admin • Organized programs for middle/high schoolers to take classes from MIT students • Directed Splash (over 2000 students, 500 teachers, 40 admins) • Taught classes on astronomy, statistical mechanics, algorithms, and more Undergraduate Math Department - Peer Tutor Feb '16 - Dec '17 • Tutored MIT undergraduates in single- and multi-variable calculus, differential equations, and linear algebra for 4 hours a week MIT Undergraduate Electricity & Magnetism - Undergraduate TA Spring '17 • Coached MIT undergraduates through physics problems for 5 hours a week Mathworks at Texas State University - Honors Summer Math Camp Counselor Summer '15 • Counseled a group of four high school students in Combinatorics and Real Analysis Ran additional review sessions and assisted a Mathematica class • Worked with 15 other counselors to maintain a nurturing camp environment AP Computer Science – TA Aug '13 - May '14 Assisted AP Computer Science students during class by creating worksheets and helping students learn how to debug programs Scratch Camp - Cofounder Spring '13 Designed and ran a camp to stimulate computer science interest in Pearce Middle School students AWARDS Larry G. Benedict Leadership Award - MIT Awards Convocation Awardee Spring '19 • Recognized for showing dedication for empowering my fellow students to develop as leaders 8th Int'l Olympiad on Astronomy and Astrophysics - Honorable Mention Aug '14 • Represented the USA in theory, observation, and data analysis exams in Romania SKILLS Hard: Python, Jupyter, Numpy, Pandas, Tensorflow, Git, Javascript, Node, Java, Linux Soft: Leadership, Data Science, Design Thinking, Rapid Prototyping Interests: Stargazing, Education, Soccer, Food

Fall '16

3D Scanner