


EVAN TEY

tey@mit.edu
512-905-8664

in  evantey14
evantey.me

EDUCATION	Massachusetts Institute of Technology Candidate for M. Eng. in Computer Science – 5.0/5.0 B.S. in Physics and Computer Science – 4.7/5.0	June 2020 June 2019
EXPERIENCE	Generative Model for Stellar Spectra – <i>Researcher, MIT</i> <ul style="list-style-type: none">• todo Kensho – <i>Part-Time Software Engineer</i> <ul style="list-style-type: none">• todo Project Invent – <i>Winter Extern</i> <ul style="list-style-type: none">• Worked at an early-stage non-profit to bring invention education to teachers and students across the country• Contributed to program design, strategy meetings, and fundraising development Bayesian Modeling of Supernovae – <i>Researcher, Imperial College London</i> <ul style="list-style-type: none">• Developed and tested a hierarchical Bayesian model for selection effects in supernovae lightcurves to better infer parameters about our universe NuSTAR X-Ray Analysis of the Galactic Center – <i>Researcher, MIT</i> <ul style="list-style-type: none">• Analyzed high energy spectra near the Galactic Center to characterize and constrain dark matter candidates with Python, Sherpa, and HEASoft software MIT Office of Open Learning – <i>Data Science Researcher</i> <ul style="list-style-type: none">• Prepared a student feedback tool for instructors to experiment on how various feedback impacts student behavior with Flask and Google BigQuery Indeed – <i>Software Engineer Intern</i> <ul style="list-style-type: none">• Created a predictive data-driven decision-making system to increase SEO acquisition for job result pages with Java, Hadoop, Pig Latin, and Git Mathworks at Texas State University – <i>Honors Summer Math Camp Counselor</i> <ul style="list-style-type: none">• 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 Mathworks at Texas State University – <i>Research Assistant</i> <ul style="list-style-type: none">• Characterized negativity in hypergraph structure to enhance our understanding of deficiencies in neural / social / magnetic networks	Mar '19 – present Spring '19 Jan '19 Summer '18 Sep '17 – Jun '18 Jun '17 – Jan '18 Summer '16 Summer '15 Summer '14
PROJECTS	Educational Telescope with VR <ul style="list-style-type: none">• Building a real 10" f/5 Dobsonian telescope with additional sensors and a screen to emulate telescope usage for use on cloudy nights Consensus <ul style="list-style-type: none">• Used the design process to lead a team of six in creating a live classroom tool that reduces confusion between students and teachers• Interviewed teachers, then prototyped and tested several features before developing a simple webapp to track users, questions, and confusion in the classroom Align <ul style="list-style-type: none">• Constructed a device to detect bad posture and give haptic feedback with flex sensors and an Arduino in a team of six Concrete Convolutional Neural Network Cryptosystem <ul style="list-style-type: none">• Replicated and extended Google Brain's paper <i>Learning to Protect Communications with Adversarial Neural Cryptography</i> with a team of three	Spring '18 Spring '16 Spring '16 Fall '16

	3D Scanner <ul style="list-style-type: none"> 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 	Fall '16
	Pygmy ProSet <ul style="list-style-type: none"> Created a live multiplayer version of the card game ProSet with NodeJS, socket.io, and JQuery 	Fall '15
	LASA UIL Study Site <ul style="list-style-type: none"> 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 	Fall '14
TEACHING	MIT Undergraduate Mathematics for Computer Science – Graduate TA <ul style="list-style-type: none"> todo 	Sep '19 – present
	MIT Spokes – Organizer & Participant <ul style="list-style-type: none"> Biked across the country and taught STEM workshops at local schools / libraries with seven other MIT students 	Summer '19
	Educational Studies Program – Admin <ul style="list-style-type: none"> Organized programs for middle/high schoolers to take classes from MIT students about anything from Surfboard Design to Quantum Mechanics to European Separatist Movements Directed Splash (over 2000 students and 500 teachers) through managing a 40 person admin team Taught classes on astronomy, statistical mechanics, algorithms, and more 	Feb '16 – Jun '19
	Undergraduate Math Department – Peer Tutor <ul style="list-style-type: none"> Tutored MIT undergraduates in single- and multi-variable calculus, differential equations, and linear algebra for 4 hours a week 	Feb '16 – Dec '17
	MIT Undergraduate Electricity & Magnetism – Undergraduate TA <ul style="list-style-type: none"> Coached MIT undergraduates through physics problems for 5 hours a week 	Spring '17
	AP Computer Science – TA <ul style="list-style-type: none"> Assisted AP Computer Science students during class by creating worksheets and helping students learn how to debug programs 	Aug '13 – May '14
	Scratch Camp – Cofounder <ul style="list-style-type: none"> Designed and ran a camp to stimulate computer science interest in Pearce Middle School students 	Spring '13
AWARDS	Larry G. Benedict Leadership Award – MIT Awards Convocation Awardee <ul style="list-style-type: none"> Recognized for showing dedication for empowering my fellow students to develop as leaders 	Spring '19
	8th Int'l Olympiad on Astronomy and Astrophysics – Honorable Mention <ul style="list-style-type: none"> Represented the USA in theory, observation, and data analysis exams over ten days in Romania 	Aug '14
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	