

MATTIA DANESE

New York, NY – Boston, MA

mattia.danese@tufts.edu / 917-545-7215

EDUCATION	TUFTS UNIVERSITY , MS Computer Science – Gordon Institute – 3.95 GPA 2022-2023 <u>Notable Elective Courses</u> <ul style="list-style-type: none">• Cloud Computing – Big Data – Reinforcement Learning – Computer Graphics – Visual Analytics
	TUFTS UNIVERSITY , BS Computer Science – School of Engineering – 3.72 GPA – MCL 2019-2022 <u>Notable Elective Courses</u> <ul style="list-style-type: none">• Intro to Security – Cryptography – Network Security – Intro to Machine Learning – Database Systems
WORK EXPERIENCE	Computer Science TA @ Tufts University – <i>HTML, JavaScript, CSS</i> Sept-Dec 2022 <ul style="list-style-type: none">• Teaching Assistant in the Computer Science Department for CS20 – Web Programming
	Software Engineering Internship @ Mass Energize – <i>Python (Django), React.js</i> Jun-Aug 2022 <ul style="list-style-type: none">• Used the Google Docs API to implement efficient importing and exporting of user content to the Mass Energize Admin Portal alongside the design of specific import and export template docs• Implemented logic to ensure username uniqueness across the Mass Energize Frontend Portal• Restructured the Mass Energize registration page with a focus on simplicity and user experience• Identified stale stored media and implemented a monthly cron function to delete such media
	Software Engineering Internship @ WAISN – <i>Python (Django), React.js</i> Oct-Dec 2021 <ul style="list-style-type: none">• Debugged and addressed several issues of the WAISN Resource Finder• Added additional functionality and desired features to the Resource Finder• Helped to rework auto-translation for all content in the Resource Finder• Utilized Git/GitHub for file management and version control
	Research Intern @ Koç University – <i>Python</i> July-Aug 2021 <ul style="list-style-type: none">• Implemented anonymous decentralized online donation scheme as a public ledger application• Used the Algorand blockchain and Python SDK provided by Algorand
	Computer Science TA @ Tufts University – <i>Python</i> Sept-Dec 2020 <ul style="list-style-type: none">• Teaching Assistant in the Computer Science Department for CS10 – Intro to Coding
	Engineering Intern @ Con Edison (coned.com) – <i>VBA, AVAIL</i> July-Aug 2018 <ul style="list-style-type: none">• Added functionality to Excel spreadsheets using VBA• Used AVAIL software to compile 200+ geo-fences around MTA signal powering structures
PROJECTS	Tufts University Projects – <i>C, C++</i> Jan-May 2020 <ul style="list-style-type: none">• Designed an image compressor and decompressor program. Utilized provided mathematical and RGB algorithms and wrote bit-packing algorithms• Designed a program that deletes black-edges of PDF or image file by specifically detecting black pixels that are either on the edge or connected to black pixels on the edge (recursion not optimal)• Designed a program that can rotate and transform ppm images. My solution heavily considered spatial and temporal locality as it could not exceed specific quotas.
SKILLS	Programming Languages and Computer-Related Skills <ul style="list-style-type: none">• Proficiency in HTML5, CSS, JavaScript, Python, Java, C, C++• Extensive knowledge of React.js, Django, Linux, SQL, VBA, Git, R, Microsoft Office
	Other Skills and Interests <ul style="list-style-type: none">• Fluency in Italian, conversational Spanish, beginner in Arabic• Great interest in the stock market, cryptocurrency, international news, and travel