MATTIA DANESE

mattiadanese.com themattiadanese@gmail.com / 917-545-7215 / New York, NY

EDUCATION	TUFTS UNIVERSITY, Gordon Institute – MS Computer Science – 3.95 GPA TUFTS UNIVERSITY, School of Engineering – BS Computer Science – 3.72 GPA – MCL	2023 2022
WORK EXPERIENCE	 Full Stack Internship @ MassEnergize - Python (Django), React.js, Git Used the Google Docs API to implement efficient importing and exporting of user content to the MassEnergize Admin Portal Implemented logic to ensure username uniqueness across the MassEnergize Frontend Portal Identified stale stored media and implemented a monthly cron function to delete such media 	2022
	Full Stack Internship @ WAISN – Python (Django), React.js, Git • 5 Finder to Spanish	2021
	Research Internship @ Koç University – Python, Blockchain Implemented anonymous decentralized online donation scheme as a public ledger application Used the Algorand blockchain and Python SDK provided by Algorand	2021
	Computer Science Department TA @ Tufts University – HTML, JavaScript, CSS, Python • Teaching Assistant CS20 – Web Programming (HTML, JavaScript, CSS) • Teaching Assistant for CS10 – Intro to Coding (Python))20-22
	 Engineering Intern @ Con Edison – VBA, AVAIL Added automated functionality and computations to Excel spreadsheets using VBA Used AVAIL software to compile 200+ geo-fences around MTA signal powering structures 	2018
PROJECTS	 Movie Streaming Finder – React.js, Rapid API Designed an application that finds which streaming services currently have a specific movie 20 global streaming services and 57 countries are supported 	2023
	 Listen Up – Python, Flask, Twilio API, Google News API, ChatGPT API Voice-based news application where the user calls a phone number and is read currently trendinews articles or articles gathered, in real-time, from their voice-based query User navigates between articles and menus solely through a telephone interface Routing is handled by a Flask application and ChatGPT produces optional summaries of each art Utilized multithreading when gathering articles in real-time for a seamless user experience 	J
	 Optimal Goalkeeper Positioning as a RL Model – Python Reinforcement Learning application where a Multi-Armed Bandit agent learns the best goalkeep position given the position of an incoming attacker The environment is a 2D shot distribution (heatmap) based on attacker initial position 	2022 per
	 Image Compressor and Decompressor - C Command line driver takes in image files to be compressed or decompressed Followed known mathematical and RBG compression algorithms to achieve lossy compression Designed specific bit-packing modules with a partner for efficient compression 	2020

SKILLS

Programming Languages and Computer-Related Skills

- Proficiency in HTML5, CSS, JavaScript, Python, Java, C, C++
- Extensive knowledge of React.js, Tailwind, Flask, Django, Linux, SQL, MongoDB, Git, R

Other Skills and Interests

- Fluency in Italian, conversational Spanish, beginner in Arabic
- Great interest in the stock market, world news, travel, and chess