

ADONAI ADDO

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EDUCATION

Tufts University, Medford, MA

Graduating Dec 2024

- **Major:** Computer Science
- **Minors:** Entrepreneurship, Engineering Management
- Residential Assistant (RA) 2021/2022

Relevant Coursework: Data Structures & Algorithms, Machine Structure & Programming, Web Programming, Game Design, Cybersecurity, Management of Innovation, Databases, *Software Engineering, *Programming Languages, *Computational theory, *Statistics, *Surveillance (* = Fall 2023)

Research: Robotics and Reinforcement Learning with [Professor Jivko Sinapov](#)

WORK EXPERIENCE

Raid The Room, Software Engineer & Sales Intern (Part-time)

Aug 2022 – Present

- Built interactive business solutions with the Gather metaverse (TypeScript, gather.town API)
- Organised large events (30 to over 5000 people) within our Gather spaces for multiple firms

Microsoft, Software Engineer Intern | DPG team

May 2023 – Aug 2023

- Implemented asset-documentation framework using VSCode Extension and ChatGPT API (C#, TS)
- Increased developer documentation productivity (time and accuracy) by an average of 300%

Microsoft, Software Engineer & Product Management Intern | DPG team

May 2022 – Aug 2022

- Delivered an average of 1200% time savings for creating data reports by constructing an end-to-end data-creation automation portal (Functional React, C#, APIs)
- Influenced multiple stakeholders within Microsoft DPG by presenting data on cost impacts of incumbent data report creation methods as opposed to implemented solution
- Documented detailed onboarding and troubleshooting guides for devs and product managers

Tufts CEO, RL Research Intern

June 2021 – Aug 2021

- Implemented an augmented reality UI using Unity to teach K-12 students reinforcement learning (RL) which increased the interactivity of 30 students with RL robots by 80%
- Research Paper: [2110.04697.pdf \(arxiv.org\)](#)

PROJECTS

Tufts Pass (The Digital Student ID) | Swift, Passkit API, NFC

[Demo video](#)

- Developed digital student IDs for Tufts students on Apple Wallet using the PassKit API (Swift)
- Utilised Apple's superior security to create a safer and more convenient solution than plastic IDs
- In talks with key stakeholders at Tufts for potential large scale implementation

WhisperGPT | Python, Whisper, GPT-4, Gradio

[Github.com/adonaiaddo/WhisperGPT](https://github.com/adonaiaddo/WhisperGPT)

- Built a personal assistant using OpenAI's Whisper and GPT APIs with a Gradio interface
- Utilised the APIs to create an interactive interface with audio input and dialogue text output

Jumboverse | TypeScript, Gathertown API

[Jumboverse.io](https://jumboverse.io)

- Built and launched metaverse of the Tufts campus using the gather.town API (TypeScript)
- Facilitated a more social Tufts during the covid pandemic

LANGUAGES AND SKILLS

Languages: C/C++, Python, JavaScript, SQL, Typescript, C# - Experienced
Objective-C, Flutter/Dart, Assembly, Java, Swift - Proficient

Technical Skills: Full Stack Development, System Design, Automation, Distributed Systems, Classical Machine Learning (Supervised & Unsupervised Learning - Andrew Ng), AI (GPT), React.js, Data Structures & Algorithms, Cybersecurity, Game Design, Game Theory

Soft Skills: Communication, Collaboration, Problem-solving, Adaptability, Curiosity