TRUDY PAINTER

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EDUCATION

Massachusetts Institute of Technology, Cambridge, MA - Class of 2023, GPA: 4.7/5.0
Computer Science and Engineering (Course 6-3) and Comparative Media Studies (Course CMS)

COURSES

Fundamentals of Programming, Math for Computer Science, Interconnected Embedded Systems, Design and Analysis of Algorithms, Computation Structures, Machine Learning

ACTIVITIES

Varsity Lacrosse, Schwarzman College of Computing Advisor, Infinite Magazine Editor, 2023 Ring Committee, PLEASURE Peer Educator, Alpha Phi Recruitment Team

EXPERIENCE

AT&T - Systems Engineering and Architecture Intern, Summer 2021
Redesigned and optimized an antiquated location microservice in the user authentication ecosystem
- Reduced memory footprint by over 95%; written in GoLang
- Ensured service properly handled its millions of daily requests through pipeline testing

Volar, MIT Sloan Startup - Web Developer, January 2021
A founding member of this startup supporting the middle class creator economy in Latin America
- Researched and completed product lifecylce exercises
- Designed backend/frontend, wrote documentation, and built out the fullstack web platform

Poetic Justice Group, MIT Media Lab - Undergraduate Researcher, Summer 2020
Led the project Real Talk Radio, a generative sound stream of Black thought sampled from music
- Curated 500 song repository of spoken intros, outros, interludes, and skits
- Created a generative broadcasting system to stream and crossfade the clips
- Designed and implemented a Python-automated backend system using Google Drive API and Google Sheets as JSON endpoints

Laboratory for Social Machines, MIT Media Lab - Undergraduate Researcher, January 2020
Conducted machine learning research to predict most reportable events of personal narratives
- Created database of personal narratives through both audio and text using Python web scraping
- Applied fundamentals of Google's PageRank algorithm to create a machine learning model that extracts most reportable events from stories

SKILLS

Languages: Python, GoLang, C++, SQL, Java, Javascript, HTML/CSS
Tools: Figma, Indesign, Illustrator
Frameworks: React, Node, Flask, Heroku, Wireframing, Git, Agile + Scrum Development, Unit + Functional Testing