Mark Joseph Wright

Boston, MA | (817)-368-9472 | mjwright@mit.edu | markjwright.info | linkedin.com/in/markjwright/

Education

Massachusetts Institute of Technology Cambridge, MA

Master of Engineering in Computer Science; GPA: 5.0/5.0 *June 2022*

Bachelor of Science in Electrical Engineering and Computer Science; GPA: 4.7/5.0 *June 2021*

- Concentration: Computer Systems
- Relevant Coursework: Intelligent Multimodal User Interfaces, Performance Engineering, Software Studio, Elements of Software Construction, Algorithms, Artificial Intelligence, Machine Learning, Microcomputer Project Lab

Experience

Meta | *Software Engineer* *Sep 2022 - Nov 2022*

- Went through multiple learning tracks including backend/systems and AR/VR app development
- Worked on multiple tasks a week supporting operations in a variety of engineering groups

MIT Introduction to Machine Learning (6.036) | *Teaching Assistant (TA)* *Aug 2021 - May 2022*

- Taught multiple groups of up to 12 students during labs, also proctored and graded exams
- Helped create and revise course content, also organized office hours

Neocis | *Software Engineering Intern* *Jun 2021 - Aug 2021*

- Designed and implemented an automated method for identification of the sinuses in CT scans of the skull

MIT Research Laboratory of Electronics (RLE) | *Undergraduate Researcher* *Jun 2020 - Aug 2020*

- Developed laboratories for a new freshman level electronics class
- Designed a PCB to introduce Cypress PSoC to students in an intuitive way

MIT Kavli Institute (MKI) | *Undergraduate Researcher* *Jun 2019 - Aug 2019*

- Designed the framework for a pipeline to process TESS satellite images for machine learning applications
- Programmed algorithms to align, subtract, and identify potential transient stars from TESS images
- Created a web application used to classify and store a dataset of TESS images in a SQL database

Relevant Projects

Leiserchess AI Bot | *Performance Engineering of Software Systems final project* *Spring 2020*

- **Purpose**: to design and implement a bot that plays a game and is competitive against other bots in the class
- Implemented parallel minimax search with alpha-beta pruning in C, redesigned the board representation to minimize space and latency, and created a web scraper to create an opening move set

Covid-19 Data Retrieval System | *Microcomputer Project Laboratory final project* *Spring 2020*

- **Purpose**: to create an easy way to obtain up-to-date state and country level coronavirus statistics and graphs using a command-line interface
- Designed and created using a Cypress PSoC 5 development board connected serially to a computer. Uses a basic language syntax to update a TFT screen with up-to-date statistics and display interactive graphs on the computer

Bridgemap | *Software Studio final project* *Fall 2020*

- **Purpose**: to assist restaurants and patrons affected by the Covid-19 pandemic to advise safety-conscious users on how to safely dine
- Created using a Vue.js frontend, with a Node backend to process user requests. Users were able to login and post questions to restaurants and search for the safety protocols they wanted. Restaurants were able to log on and update their protocols and respond to questions.

Leadership, Honors, and Activities

MIT Varsity Football | *Starting Placekicker* *2017 - 2021*

- School record for most kicking points in a game
- Special Teams MVP, 6 time special teams player of the week

Delta Kappa Epsilon Fraternity | *Alumni Relations Chair* *2017 - Present*

- Wrote and distributed the annual alumni newsletter
- Coordinated alumni events and raised money for house development projects

Little Beavers Running Club | *Student Coach* *2018-2021*

- Mentored autistic children weekly during a running program to assist their neurodevelopment

Technical Skills

Python | **Java** | **Javascript** | **C/C++** | **HTML/CSS** | **JavaScript** | **SQL** | **Git** | **Bash** | **Linux** | **ML/AI**