Mark Joseph Wright

Boston, MA | (817)-368-9472 | markwright405@gmail.com | 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
- Key Courses: Intelligent Multimodal User Interfaces, Performance Engineering, Software Studio, Elements of Software Construction, Algorithms, Artificial Intelligence, Machine Learning, Microcomputer Project Lab

Experience

Watershed Informatics | *Software Engineer* *Jan 2023 -*

- Worked in a small, fast-paced team, touching all aspects of the system, with major contributions in the backend
- Overhauled the logging system, enabling the live retrieval of logs from a distributed compute system
- Created dashboards for live monitoring memory and data usage in a distributed environment

Meta | *Software Engineer* *Sep 2022 - Jan 2023*

- Completed learning tracks encompassing backend/systems engineering and AR/VR application development
- Contributed to the development and maintenance of multiple engineering projects, resulting in improved efficiency

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

- Facilitated lab sessions for groups of up to 12 students, and took responsibility for proctoring and grading exams.
- Collaborated in the creation and dissemination of course materials, enhancing students' comprehension

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

- Designed and implemented an automated method for identification of sinuses in CT scans, improving the accuracy and efficiency of dental implant surgeries

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

- Conceptualized and developed laboratories for an introductory electronics class, including the design of a PCB to familiarize students with Cypress PSoC

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

- Implemented algorithms for the alignment, subtraction, and detection of potential transient stars from TESS images, and constructed a web application for the classification and storage of a TESS image dataset in an SQL database.

Relevant Projects

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

- **Objective**: Develop and implement a competitive bot capable of playing a game against other class bots
- Developed a parallel minimax search algorithm with alpha-beta pruning in C, optimized board representation to minimize space and latency, and built a web scraper to generate an opening move set

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

- **Objective**: Provide assistance about restaurants during the Covid-19 pandemic, advising safety-conscious users on secure dining practices
- Developed a responsive Vue.js frontend and a Node backend to process user requests. Enabled users to log in, pose questions, and search for safety protocols. Restaurants could update their safety protocols and respond to queries.

Leadership, Honors, and Activities

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

- Set a school record for the most kicking points in a single game
- Awarded Special Teams MVP, and six-time special teams player of the week

Assocation of Sigma Tau Alumni of Delta Kappa Epsilon | *Alumni Relations Chair* *2021 - Present*

- Managed and maintained an on-premises server for undergraduate member use
- Organized alumni events and spearheaded fundraising initiatives for house development projects

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

- Provided weekly mentorship to children with autism via a running program designed to support neurodevelopment

Technical Skills

Python | **C/C++** | **Typescript** | **React** | **SQL** | **Linux** | **ML/AI** | **Docker** | **Networking** | **Databases** | **Git**