Sahit Kadthala

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EDUCATION

University of Maryland, College Park, MD **GPA: 4.00 / 4.00**

- **Combined BS/MS, Computer Science**
  - **Master of Science, Computer Science** **Anticipated: May 2025**
  - **Bachelor of Science, Computer Science** **Anticipated: May 2024**
    - Cybersecurity Minor | Honors College Citation
- **Relevant Coursework:** Algorithms, Advanced Data Structures, Compilers, Artificial Intelligence, Data Science, Object-Oriented Programming II, Introduction to Computer Systems, Discrete Structures

RELEVANT EXPERIENCE

Teaching Assistant for Computer Systems, *UMD Computer Science,* College Park, MD **January 2023 - Present**

- Taught C programming and assembly language concepts and how they apply to computer systems
- Instructed two discussion sections for 75 students and held office hours to provide additional support

Computer Science Researcher, *UMD Human Data Interaction Group*, College Park, MD **August 2022 - Present**

- Programmed WebGL renderer using Three.js and Node.js to render SVGs 25% faster with enhanced clarity
- Developed a new rollup bundler for the Mascot.js npm library to create functionality in React and Angular
- Created a Python script to autonomously generate thousands of diverse synthetic datasets based on the structure of a user-provided dataset to utilize in machine learning model training

Software Engineering Intern, *Textron Systems*, Hunt Valley, MD **May 2023 - August 2023**

- Engineered a tool to be used by Systems Engineers to maintain a set of 10,000 faults for unmanned boats
- Designed a user interface to display data and create valuable CSV exports and header files for the Navy
- Incorporated a MySQL database containing the fault data into a user interface developed in C++ and QT
- Gained experience with the entire Software Development lifecycle and working in an Agile environment

Software Engineering Intern, *US Army Research Laboratory*, Adelphi, MD **May 2022 - September 2022**

- Developed a user interface that serves as a real-time power monitoring system for soldiers by collecting and visualizing electric power data from ground sensors
- Automated an email system that sends reports of recently collected data when sensor alerts are triggered
- Submitted a presentation and abstract for publishing by the US Army Research Technical Library

Programmer, *BigTh!nk AI*, College Park, MD **September 2021 - May 2023**

- Constructed and optimized a convolutional neural network using Keras to detect malaria-infected cells
- Implemented deep learning and supervised machine learning in Python for image classification

PERSONAL PROJECTS

Using Machine Learning to Predict the 2023 NBA Champion Project

- Completed the data science lifecycle by constructing data visualizations and machine learning models trained on the past 40 years of regular season data to predict the next NBA winner

Terra-PIN Project

- Combined knowledge of JavaScript and HTML/CSS with the Google Maps API to create a simulation where the player receives a street view of a random location on campus and must guess the location

Job Hunter Project

- Designed three web scrapers using Python to compile job postings from commonly used job boards

SKILLS

Languages: C, C++, Java, JavaScript, Python, SQL, HTML/CSS, OCaml, Racket, Ruby, Rust, R, MATLAB

Databases: PostgreSQL, MySQL, MongoDB | **OS:** Linux/Unix, MacOS, Windows | **Conversant** in Telugu, Hindi

AWARDS

- **President's Merit Scholarship**, *University of Maryland* **August 2021 - Present**
- **4x CMNS Dean's List**, *University of Maryland* **Fall 2021, Spring + Fall 2022, Spring 2023**