Sahit Kadthala

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EDUCATION

University of Maryland, College Park, MD
- **Bachelor of Science, Computer Science**   **Anticipated: May 2024**
  - **Minor: Advanced Cybersecurity Experience for Students (ACES)**
  - GPA: 4.00 / 4.00
- Honors College – *University Honors Living Learning Program (UH)*
- Relevant Coursework
  - Object-Oriented Programming II: Designed efficient algorithms by implementing data structures
  - Introduction to Computer Systems: C programming in Linux and MIPS assembly language
  - Algorithms: Studied the complexity of sorting and graph/tree algorithms and combinatorics

Centennial High School, Ellicott City, MD   **2017 - 2021**
- GPA: 3.93 / 4.00 | SAT: 1590/1600

WORK EXPERIENCE

CS Research Assistant, *UMD Human Data Interaction Group*, College Park, MD   **August 2022 - December 2022**
- Developed a new WebGL renderer that takes a visualization data structure as input and renders scalable vector graphics (SVGs) faster and with greater clarity than the previous renderer
- Programmed using Three.js and Node.js to implement the renderer as a new option on a user interface

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
- Stored data in a PostgreSQL database which was queried using Python and displayed in a HTML webpage
- Created 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

Math Tutor, *Virtual Stem Tutoring*   **August 2020 - May 2021**
- Teamed up with fellow students to create a free tutoring service for students in Covid-19 virtual learning
- Tutored Howard County students in grades K-12 weekly over Zoom in all school math courses

Chess Coach, *Best in Class Education Center*, Ellicott City, MD   **October 2018 - March 2020**
- Introduced the basics of chess to beginners and taught advanced strategies to veteran players
- Orchestrated multiple chess tournaments by organizing multiple rounds of gameplay per student

EXTRACURRICULARS

Programmer, *BigTh!nk AI*, College Park, MD   **September 2021 - Present**
- Constructed and optimized a convolutional neural network using Keras to detect malaria-infected cells
- Learned deep learning and supervised machine learning in Python

Bookkeeper, *UH Student Life Council and Student Board*, College Park, MD   **October 2021 - Present**
- Recorded meeting minutes with notes of important matters being discussed in weekly meetings
- Developed ideas for student involvement in the University Honors organization

Programmer, *Centennial High School Robotics Club*, Ellicott City, MD   **August 2018 - March 2020**
- Developed ideas for the design of the robot to make it possible to control using programs
- Programmed the robot using Java to perform a list of maneuvers around a course

SKILLS

- Languages: Python, C, Javacript, Java, Ruby, OCaml, Rust, R, Matlab
- OS: MacOS X, Windows, Linux/Unix
- IDE: Eclipse, VS Code, RStudio, Android Studio

- Database management using PostgreSQL
- Conversant in Hindi, Telugu, French
- Strong Work Ethic and Punctuality

AWARDS

- **University of Maryland President's Merit Scholarship,** *UMD*   **August 2021 - Present**
- **3x University of Maryland CMNS Dean's List,** *UMD*   **Fall 2021, Spring 2022, Fall 2022**