Sai Akshay Sivakumar

21 Thomas Dr., Robbinsville, NJ • 609-727-1332 • saisivakumar2004@gmail.com • www.linkedin.com/in/sai-siva26

EDUCATION

University of Maryland   College Park, MD | Aug 2022 - May 2026

- B.S. in Computer Science, Minor in Statistics, Expected Graduation: May 2026
- GPA: 3.4/ 4.0
- Awards: Dean's List- Fall 2022, Spring 2023
- Relevant Coursework: Object-Oriented Programming I, Object-Oriented Programming II, Computer Systems, Discrete Structures, Linear Algebra, Algorithms
- Involvements: First-Year Innovation and Research Experience, AWS club, App Development Club, Club Tennis

WORK EXPERIENCE

Headstarter AI, Software Engineering Fellow   Remote | July 2024 - September 2024

- Completing a 7-week fellowship building 5 AI projects and participating in 5 hackathons, enhancing technical and teamwork skills.
- Developing a final project with goals of 1000+ users, significant user engagement, and/or revenue generation.
- Engaging in AI coaching, interview prep, and received feedback from experienced engineers, improving job readiness

First-Year Innovation Research Experience, *Student Researcher*   College Park, MD | Aug 2022 - Dec 2023

- Utilized tools such as Matlab and Microsoft Excel to answer challenging multi-modal optimization research problems
- Gained hands-on experience in vital laboratory training methods
- Leveraged software tools to create a campus mapping project that finds the most efficient paths for students to walk from and to the 257 buildings on campus

SOFTWARE ENGINEERING PROJECTS

Campus Mapping   Aug 2023 - Dec 2023

- Constructed an optimal map for the 40,000 students on campus
- Plotted a connected graph with OpenStreetMap data
- Implemented a pathfinding algorithm, using JavaScript, in the connected graph to show the most optimal routes for students to take
- Engineered an intuitive and visually appealing user interface, with HTML/CSS, that streamlines the interaction process with the map, improving user experience

Word Count Tree Visualizer   April 2023

- Integrated a search tree data structure that includes key-value mappings, insertion, search, and delete operations
- Assembled a Java Swing GUI application called "WordCountGUI" that allows users to input a filename, counts the occurrences of words in the specified text file, and displays the results in a user-friendly interface
- Utilized the search tree data structure to store and update word counts efficiently, demonstrating proficiency in data structures and file handling in Java

SKILLS

- **Technical Skills:** Java, HTML/CSS, MATLAB, Microsoft Excel, C, Python, .NET, jQuery, Bootstrap, C#, Data Structures, OCaml
- **Environments:** Eclipse, Unix, Linux, Visual Studio, Git