

Sahil Jagtap

Fairfax, Virginia

+1 703-826-3790 | sjagtap2@gmu.edu | [linkedin.com/in/sahiljagtap08](https://www.linkedin.com/in/sahiljagtap08) | github.com/sahiljagtap08 | sahiljagtap.com

EDUCATION

George Mason University - Honors

Bachelor of Science in Computer Science

Fairfax, VA

Aug. 2022 – May 2026

EXPERIENCE

Microsoft | NASA

May 2023 -- June 2023

Microsoft Azure Space - 5 Weeks Internship Program

Remote & Arlington, VA

- Set up a planetary computer environment to facilitate efficient data processing and analysis.
- Created a high-level paper-based architecture of the application, outlining the key components.
- Ingested Sentinel-1 data from the planetary computer platform to acquire relevant satellite imagery.
- Reviewed existing algorithms and techniques to inform the design of the detection model.
- Selected features and metrics, trained the model using Python and Jupyter Notebook.
- Trained the model using the prepared data, fine-tuning its parameters for optimal performance.
- Deployed the planetary computer application, ensuring its scalability and efficient utilization of resources.

Information Technology Intern

May. 2023 – Aug. 2023

Precise Systems Inc. - Summer Internship 2023

Manassas, VA

- Collaborated with the IT team at Precise Systems to support and enhance the company's website, playing a key role in improving its functionality and user experience.
- Assisted in the development and maintenance of the company website, utilizing web technologies such as HTML, CSS, and JavaScript to implement new features and resolve issues.
- Conducted thorough testing and quality assurance to identify and fix bugs or errors in the website.
- Played a vital role in designing and deploying a scalable and reliable database infrastructure for the project.

President

April 2023 – Present

DSCS-GMU, Chapter at the NSDC - Columbia University

Fairfax, VA

- Established strong collaborations with academic departments, industry professionals, and external organizations including the National Student Data Corps at *Columbia University*, facilitating internship opportunities, research partnerships, and networking avenues for society members.
- Developed and executed a comprehensive strategy to drive awareness and engagement, resulting in a significant increase in membership and active participation within the *Data Science and Computation Society*.
- Organized and curated a series of impactful events, including data science workshops, seminars, and guest speaker sessions, providing valuable learning opportunities and industry insights to members.

PROJECTS

HackMIT - 2nd Place (TerraAPI Track Prize Winner | *Next.js, Firebase, TerraAPI, GPT-4, Git*)

Sep. 2022

- Utilized Next.js for the frontend development, creating an interactive and engaging user interface.
- Implemented Firebase for the backend, ensuring secure and efficient data storage and retrieval.
- Integrated TerraAPI to access and transform daily activity and health data into a virtual character.
- Leveraged GPT-4 and DALL·E 2 to provide a dynamic and personalized character experience.
- Incorporated mathematical algorithms to calculate and reflect real-life health and energy levels in the character.

Metro-Rail-App | *C++, Graph, Heap, Dijkstra's Algorithm, BFS, DFS*

July 2023

- Developed a C++ program to assist commuters in the Metro system by providing shortest routes.
- Implemented the project using Graph and Heap data structures, with nodes representing metro stations and edges representing distances and costs between stations.
- Utilized Dijkstra algorithms, BFS, and DFS to determine the shortest path between source and destination.
- Demonstrated proficiency in C++ programming and data structures to solve real-world transportation problems.

TECHNICAL SKILLS

Languages: C/C++, Java, Python, SQL(MySQL, Postgres), JavaScript, HTML/CSS

Frameworks & Libraries: Express.js, React, Node.js, Flask, JUnit, TailwindCSS, Pandas, NumPy, Matplotlib

Developer Tools: Git, GitHub, Linux, Jupyter, Docker, VS Code, PyCharm, IntelliJ

Computer Science (Core): OOPs, Data Structures, Algorithms, Mathematics, OS, DBMS, Computer Networking.