

# Jahnavi Paladugu

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*Student in CS with a strong foundation in logic, math, designing solutions, and writing code in various languages. Seeking an internship in tech to gain experience and to leverage skills in problem solving, collaboration, communication, and software development.*

## EDUCATION

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### GEORGE MASON UNIVERSITY

Fairfax, VA

Bachelor of Science in Computer Science

Expected graduation date: Dec 2024

- **GPA:** 3.85/4.0; Dean's list for all semesters
- **Relevant Coursework:** Object-Oriented Programming, Intro to Low-level Programming, Data Structures, Computer Systems and Programming, Formal Methods and Models, Discrete Mathematics, Linear Algebra

## WORK EXPERIENCE

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### Undergraduate Teaching Assistant (UTA)

Aug 2022 - Present

- Work with computer science students to assist them with programming assignments during labs and answer questions regarding coding on an online forum called Piazza.

### Learning Assistant (LA)

Jan 2023 - Present

- Work with math students in an active learning class setting and help them with mathematical concepts/problems, and assist the professor with creating new class material.

## ACADEMIC PROJECTS

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### Microsoft and NASA Azure Space Education Program

May 2023 – Jun 2023

- Used Microsoft planetary computer and NASAs synthetic aperture radar (SAR) geospatial data from Sentinel-1 satellite imagery for the Global Renewables Watch to identify and differentiate offshore windmill farms from other stationary objects using algorithms in Python.

### Task Manager Shell

- Designed and programmed a Shell interface that executes built-in and user instructed programs as foreground and background child processes. The interface also uses signal handling, Unix I/O and maintains the list of tasks which the user can suspend, kill, or delete.

### Graph Algorithm Simulator

- Develop the graph data structure using other data structures such as priority queues, heaps, linked lists, etc. in Java and create an optimized program that simulates Chaitin's Coloring Algorithm on the graphical user interface (GUI).

### CPU Scheduler

- Created a CPU scheduler for a process-level virtual machine which allows users to run different custom processes. The CPU utilizes the language C, linked lists and Bitwise operators to create a program that multitasks all the processes on the CPU.

## ADDITIONAL INFORMATION

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- Technical skills: Java, C, Python, JavaScript, HTML, MS Office
- Certifications: CodePath Intermediate Cybersecurity Course (Online, Fall 2022)
- Clubs/Organizations: Robotics (Member), Girls Who Code (Member)