

# Shreeya Gopakumar

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## EDUCATION

### Carnegie Mellon University

*Bachelor of Science in Computer Science*

Pittsburgh, PA

Aug. 2023 – May 2027

- Cumulative GPA: 3.76/4.0
- Relevant Coursework: Functional Programming, Imperative Computation, Linear Algebra, Mathematical Foundations for Computer Science, Great Ideas in Theoretical Computer Science, Writing for the Professions
- Honors: School of Computer Science, Dean's List with High Honors (Fall 2023, Spring 2024)

### DPS International School

*Council for the Indian School Certificate Examinations - 99%*

Singapore

May 2023

## PROJECTS

### Personal Portfolio Website | *HTML/CSS, JavaScript*

May 2024 – Present

- Developed a personal portfolio website to showcase various side-projects.
- Designed and implemented the website's layout, user interface and functionality.
- Projects showcased include an online snake game and a set of face recognition programs that use python libraries like NumPy, Kivy and OpenCV.

### C0VM | *C*

April 2024

- Implemented a virtual machine for C0 influenced by the Java Virtual Machine (JVM) and the LLVM.
- The project interprets compiled C0 code (in bytecode format) using multiple stack implementations and function pools to handle function calls, arithmetic operations and other instructions.

### House of Horrors - Term Project (15-112 Fundamentals of Programming) | *Python, PIL*

December 2023

- Designed an interactive escape room-inspired adventure in Python utilizing the CMU Graphics package and Python Imaging Library to create an immersive game environment.
- Implemented the Prim's algorithm for maze generation and recursive backtracking for maze solving

### Peel Power - Green Wave Contest, Singapore |

November 2022

- Collaborated with a peer and analyzed over 15 research papers to devise strategies for rapid photo-pyrolysis of fruit and vegetable peels to tap into sustainable hydrogen fuel

## ORGANIZATIONS

### CMU Abhinaya - Finance Manager

*Carnegie Mellon University*

May 2024 – Present

Pittsburgh, PA

- Orchestrated financial strategies ensuring fiscal accountability, driving sustainable growth and operational excellence of Carnegie Mellon University's premier Indian Classical dance team, CMU Abhinaya

### Student Council Head

*DPS International School*

January 2022 – January 2023

Singapore

- Supervised a dynamic team of 20+ student representatives, organized and executed a series of engaging sociocultural events both within and outside the school community

## CERTIFICATIONS AND AWARDS

- Career Essentials in Generative AI by Microsoft and LinkedIn
- Advanced Google Analytics
- React Essential Training (LinkedIn)
- The Queen's Commonwealth Essay Competition 2022, Gold Award

## ADDITIONAL

**Technical skills:** Python, Java, C, HTML/CSS, JavaScript, Standard ML, LaTeX, Microsoft Office Suite, Canva, Adobe Photoshop, Notion

**Frameworks/Libraries:** React, NumPy, kivy, Flask, OpenCV, PIL

**Developer Tools:** Git, Bash, Vim, VS Code, Visual Studio, PyCharm