

Mantavya Mahajan

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in [Linkedin](#)

Objective

Seeking a Software Engineering Internship to apply my computer science skills and programming expertise. Eager to collaborate with diverse teams, develop innovative features, and enhance digital platforms, contributing to the success of the organization

Relevant Experience

- 2024/01 – present

Math Peer Tutor
Eberly College of Science
 - Conducted hands-on exercises and problem-solving sessions.
 - Cooperated with instructors and LAs in weekly meetings.
 - Fostered a collaborative and effective learning atmosphere.
- 2023/08 – 2023/12

Math 140/Phys 211 Learning Assistant
Eberly College of Science
 - Facilitated over 100+ one-on-one tutoring sessions, helping students enhance their understanding.
 - Received positive feedback from 95% of students for clarity of explanation and patience.
 - Demonstrated a deep understanding of the subject, leading to a substantial improvement in students' grades.

Education

- 2022/08 – 2026/04
University Park, PA

Bachelor of Science in Computer Science And Computational Mathematics
The Pennsylvania State University
GPA: 3.6 Deans List: Fall 2022, Spring 2023, Fall 2023
Relevant Coursework:
 - Python, Data Structures and Algorithms
 - Object-Oriented Programming in Java
 - Discrete Mathematics
 - Currently taking: Programming Languages, Advanced Data Structures and Algorithms, System Programming, Digital Design
- Delhi, India

High School Diploma
St. Xaviers School
GPA: 3.7

Technical Skills

- | | | |
|--------------|---------|-------------|
| • Python | • MySQL | • Java |
| • Ms Office | • HTML | • C |
| • Django | • Excel | • Databases |
| • Statistics | | |

Professional Experience

- present

Research Assistant
Penn State College of Information Science and Technology
 - Contributed to OPARCS Lab at Penn State University, focusing on open-source software development and complex systems research.
 - Collaborated with faculty and students to set up lab hardware, install critical software systems, and develop web resources.
 - Participated in skills building workshops and outreach efforts, gaining practical experience in Linux, databases, and Git/GitHub.

Projects

- Transport Management System(Python,HTML,CSS)**
Developed an innovative route management system for my school using Python, MySQL, and HTML/CSS, which streamlined the transportation process by efficiently mapping out unique routes for vehicles to safely transport and drop off students.
- DermAI(Python)**
Developed DermAI, an innovative machine learning model for acne classification. Trained on hundreds of images, the model accurately identifies acne types and severity with a 70% success rate.
- Course Scheduler(Java, Derby Database)**
Led the creation of a Course Scheduling application, enabling efficient course scheduling for administrators and students. The GUI-based, database-driven application incorporated object-oriented programming and Derby database, with robust testing ensuring reliability.

Leadership Management

- EON**
Mentor
Guided incoming Computer Science students at Penn State University in seamlessly transitioning to the curriculum, introducing them to a wealth of resources, and igniting their academic journey