

# Mantavya Mahajan

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## 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

## Professional Experience

2024/06 – 2024/08 Delhi, India	<b>Full Stack Web Development Intern</b> <i>Alchem International</i> <ul style="list-style-type: none"><li>Developed and maintained web applications using HTML, CSS, JavaScript, Bootstrap, jQuery, and PHP.</li><li>Implemented new features and optimized existing code for better performance.</li><li>Collaborated with cross-functional teams to deliver high-quality software solutions.</li><li>Conducted code reviews and participated in daily stand-up meetings.</li><li>Utilized Git for version control and JIRA for project management.</li><li>Managed databases using MySQL, ensuring data integrity and optimizing queries for better performance.</li></ul>
2023/09 – 2024/05 STATE COLLEGE, United States	<b>Research Assistant</b> <i>Penn State College of Information Science and Technology</i> <ul style="list-style-type: none"><li>Contributed to OPARCS Lab at Penn State University, focusing on open-source software development and complex systems research.</li><li>Collaborated with faculty and students to set up lab hardware, install critical software systems, and develop web resources.</li><li>Participated in skills building workshops and outreach efforts, gaining practical experience in Linux, databases, and Git/GitHub.</li></ul>

## Education

2022/08 – 2026/04 University Park, PA	<b>Bachelor of Science in Computer Science And Computational Mathematics</b> <i>The Pennsylvania State University</i> GPA: 3.6 Deans List: Fall 2022, Spring 2023, Fall 2023, Spring 2024 Relevant Coursework: Python, Data Structures & Algorithms, Object-Oriented Programming, Discrete Mathematics, Programming Languages, Advanced Algorithms, System Programming, Digital Design
Delhi, India	<b>High School Diploma</b> <i>St. Xaviers School</i> GPA: 3.7

## Relevant Experience

2023/08 – 2023/12	<b>Math 140/Phys 211 Learning Assistant</b> <i>Eberly College of Science</i> <ul style="list-style-type: none"><li>Facilitated over 100+ one-on-one tutoring sessions, helping students enhance their understanding.</li><li>Received positive feedback from 95% of students for clarity of explanation and patience.</li><li>Demonstrated a deep understanding of the subject, leading to a substantial improvement in students' grades.</li></ul>
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## Technical Skills

<b>Programming Languages:</b> <i>Python, Java, C</i>	<b>Web Development:</b> <i>HTML, CSS, JavaScript, Bootstrap, jQuery, PHP, Django</i>	<b>Databases:</b> <i>MySQL, Derby Database</i>
<b>Tools:</b> <i>Git/GitHub, Linux, Microsoft Office, Excel</i>	<b>Other Skills:</b> <i>Statistics, Data Analysis</i>	

## Projects

**AgriScience (Django, MySQL)**  
Built a platform using Django and MySQL that allows users to optimize crop growth with a year-round plan based on location, weather, farm size, and equipment.

**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