

# Gaurav Parab

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## EDUCATION

### The Pennsylvania State University

University Park, PA

*Bachelor of Science (B.S.), Computer Science | GPA: 3.66*

*July 2022 - May 2026*

- **Relevant Coursework:** Data Structures and Algorithms, Systems Programming, Computer Organization and Design, OOP with Web-Based Applications, Digital Design, HTML and CSS in depth

## TECHNICAL EXPERIENCE

### The Pennsylvania State University

University Park, PA

*Teaching Assistant*

*August 2022 - December 2023*

- Facilitated weekly recitation sessions for around 200 students learning Programming Fundamentals, collaborating with instructors to improve student understanding.
- Led review sessions to help students understand the new material presented in lectures.
- Conducted code reviews for 100+ assignments per week, providing feedback to both students and instructors.

### Special Order Systems

Sacramento, CA

*Project Intern*

*July 2021 - December 2021*

- Developed security system solutions for California state beaches through API interactions, improving efficiency by 10%.
- Created Python scripts to automate weather data retrieval via APIs, providing real-time environmental data to beach systems and personnel.

## PROJECTS

### Dashboard | *Next.js*

July 2024 - Present

- Created a dashboard to view sensitive data in an interactive interface.
- Used Discord OAuth to lock 150+ database documents behind authentication.

### Discord Bot | *JavaScript*

May 2022 - Present

- Building a discord bot in Node.js which interacted with the Discord API, increasing server activity and handling over 200,000 concurrent users.
- Allowed 30+ moderators to perform and automate certain server tasks, increasing general productivity.

### JBOD System | *C*

September 2023 - December 2023

- Created a simulated multi disk system with read and write capabilities.
- Implemented networking which enabled server communication with the system to send and receive packets.

### Monopoly Board Game | *Java*

May 2022

- Collaborated with 3 teammates to create a full-stack Monopoly project.
- Developed 40% of the codebase for the GUI-based game, employing various structures and packages.

## EXTRACURRICULAR ACTIVITIES/CLUBS

Nittany AI Student Society, Club Tennis, Penn State Outing Club

## RELEVANT SKILLS

**Languages:** Python, Java, JavaScript, TypeScript, C, HTML/CSS, Verilog, Bash, C++ (Basic), R (Basic)

**Developer Tools/Frameworks:** Visual Studio Code, Git, Node.js, Docker, React, Next.js, MongoDB

**Non-Technical:** Tennis, Photography, Hindi, Marathi, Spanish