

# Gaurav Parab

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## EDUCATION

**The Pennsylvania State University**  
*Bachelor of Science (B.S.), Computer Science*

University Park, PA  
July 2022 - May 2026

## TECHNICAL EXPERIENCE

**The Pennsylvania State University**  
*Learning Assistant*

University Park, PA  
August 2022 - December 2023

- Facilitated weekly recitation sessions for around 200 students learning Programming Fundamentals, collaborating with TA's to improve student understanding.
- Held 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

- Assisted in the development of security system solutions for California state beaches using API interactions in Python.
- Wrote code to connect to a weather API and relay data to beach systems and personnel.

## RELEVANT COURSEWORK

OOP with Web-Based Applications (CMPSC 221)   Systems Programming (CMPSC 311)  
Data Structures and Algorithms (CMPSC 465)   HTML and CSS in depth (Coursera)  
Digital Design (CMPEN 270)   Computer Organization and Design (CMPEN 331)

## PROJECTS

### Dashboard

July 2024 - Present

*Next.js*

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

### Discord Bot

May 2022 - Present

*JavaScript*

- Built 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

September 2023 - December 2023

*C*

- 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

May 2022

*Java*

- Collaborated with 3 teammates and developed around 40% of the code of a fully functional GUI-based game of Monopoly using various structures and packages.

## EXTRACURRICULAR ACTIVITIES/CLUBS

Nittany AI Student Society, Penn State Outing Club (PSOC), Club Tennis

## 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