

# Gaurav Parab

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## EDUCATION

### Pennsylvania State University

Bachelor of Science (B.S.), Computer Science

University Park, PA

July 2022 - May 2026, GPA: 3.66

## TECHNICAL EXPERIENCE

### Pennsylvania State University

Learning Assistant

University Park, PA

August 2022 - December 2023

- Interacted with and taught around 300 students in CMPSC 131 (Programming Fundamentals) recitation classes alongside TA's.
- Held review sessions to help students understand the new material presented in lectures.
- Conducted code reviews and helped grade homework, projects, and tests.

### Special Order Systems

Project Intern

Sacramento, CA

July - 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 that allowed users to view data stored in databases in an interactive interface.
- Used Discord OAuth to lock sensitive data behind authentication.

### Parser

March 2024

Python

- Designed a system that returned abstract syntax trees from provided expressions.
- Included getting expression tokens and analyzing their order, and using grammar provided in a text file to build the final tree.

### Discord Bot

May 2022 - Present

JavaScript

- Built a discord bot in Node.js which interacted with the Discord API and allowed users to use utility and fun commands.
- Allowed moderators to perform and automate certain server tasks.

### 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, C++ (Basic), R (Basic)

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

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