

Gaurav Parab

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EDUCATION

The Pennsylvania State University

University Park, PA

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

July 2022 - May 2026, GPA: 3.66

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

TECHNICAL EXPERIENCE

The Pennsylvania State University

University Park, PA

Learning Assistant

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.

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, Club Tennis, Penn State Outing Club (PSOC)

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