Gaurav Parab

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EDUCATION

Pennsylvania State University — University Park, PA
Bachelor of Science (B.S.), Computer Science — *July 2022 - May 2026*

TECHNICAL EXPERIENCE

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.

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