# Gaurav Parab

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## EDUCATION

**The Pennsylvania State University** — University Park, PA
*Bachelor of Science (B.S.), Computer Science; Minor in ELD | GPA: 3.66* — *July 2022 – May 2026*

- **Relevant Coursework:** Data Structures & Algorithms, Computational Theory, Operating Systems, Computer Organization and Design, Object-Oriented Programming, Quantum Computing

## RELEVANT SKILLS

**Languages**: Python, Java, JavaScript, C/C++, HTML/CSS, Bash, SQL, Assembly, React, Next.js, R
**Developer Tools**: Node.js, Docker, Amazon Web Services, REST APIs
**Interests**: Cloud, Artificial Intelligence, Algorithms, DevOps

## TECHNICAL EXPERIENCE

**Amazon Web Services** — Arlington, VA
*Software Development Engineer Intern* — *June 2025 – August 2025*

- Designed a customer facing API to automate the onboarding process for an existing feature, reducing onboarding time from ~1 week to a few seconds
- Reviewed threat mitigations for API implementation, ensuring standards prior to public feature launch
- Built scalable API infrastructure using DynamoDB, EC2, and AWS Organizations

**General Dynamics** — Groton, CT
*Software Engineering Co-op* — *January 2025 – May 2025*

- Developed various scripts for database processes, automating requirement traceability, reducing manual labor, and speeding up reviews by 40%
- Resolved critical bug requests and issues by debugging DXL code, analyzing database inconsistencies, and quickly implementing fixes for impacted users
- Maintained critical testing and publishing frameworks for mission-critical software, ensuring reliability and redundancy in operational environments

**The Pennsylvania State University** — University Park, PA
*Teaching Assistant* — *August 2022 – December 2023*

- Facilitated weekly recitations for ~200 students learning Python programming fundamentals
- Led three weekly review sessions to help students understand the new material presented in lectures
- Conducted code reviews for 100+ Python assignments per week, providing feedback to students and instructors

## PROJECTS

**Dashboard** | *React, Next.js* — July 2024 – Present

- Designed a responsive dashboard to securely display over 200 sensitive documents, improving engagement for 100+ users.
- Used Discord OAuth to lock sensitive data behind authentication

**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

**Nittany AI Student Society**

- Actively engaged in workshops and bootcamps, collaborating with fellow participants to further my understanding of machine learning

**Club Tennis**

- Attended weekly tennis practices, interacting with club members to refine my tennis skills and contribute to a collaborative team environment