GITIKA SAINI

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EDUCATION

The Pennsylvania State University |University Park, PA
Bachelor of Science Computer Engineering   **Graduation:** May 2027 (3.6)
Economics Minor, Cybersecurity Minor

TECHNICAL EXPERIENCE

Intern at Tripletech, Mauritius   Summer 2025

- Supported HIS workflows (registration, billing, discharge) and explored front-end stack (HTML, CSS, JS).
- Participated in data migration and basic network diagnostics (IPv4, fiber, switches).
- Resolved technical issues across departments (printers, networks, logins) and assisted with SIP/call center troubleshooting and hardware support at GRIT sites.

Notable GitHub projects: https://github.com/gitsika119

- **Frontend Development**: Created interactive web apps (*ToDooze*, *Sidequesting*) using HTML, CSS, and JavaScript.
- **Machine Learning & AI**: Built CNN models for image classification (e.g. *CatsDogsClassification*, *MNIST*), applied NLP with RAG for QA (*DocumentAns_RAG*), and implemented RL algorithms. Also delivered end-to-end ML pipelines (*FlowerClassification*)
- **C++ & Python Algorithms**: Developed classic games and tools (*Nim-Game*, *Hangman*, *USD-Change-Calculator*) showcasing strong logic and control flow.

SIGNIFICANT COURSEWORK

- **Google Cyber Security Professional Certificate -** Completed 8 courses developed by Google. Learnt Python, Linux, SQL, SIEM tools and IDS.
- **Nittany AI Machine Learning Bootcamp, Advanced Machine Learning Bootcamp -** Completed 8 projects and covered fine-tuning, RAG, CNNs, neural networks, linear and logistic regression, K-means clustering, back propagation etc.
- **CMPSC 121, 122, 221, 311 -** Strong understanding of DSA, OS, data manipulation, database management, OOP, data encapsulation and polymorphism and system programming.
- **Forage Virtual Job Simulations:**
  Accenture - Software Engineering*:* Agile, architecture, security, testing
  Deloitte - Cybersecurity: Web log analysis, incident response
  Mastercard - Cybersecurity: Threat detection, security awareness
  Johnson&Johnson – Robotics and Controls: Sensor integration, control systems, automation

EXTRA CURRICULAR AND LEADERSHIP EXPERIENCE

- Resident Assistant at Penn State (2025 - present)
- MATH 140 Learning Assistant at Penn State (2024 -25)
- Math Tutor at Penn State (2025 - present)
- Association of Computing and Machinery Officer (2024 - present)
- HackPSU Director (2024 – present)
- Attended Global Engagement and Leadership Experience 2023
- United Nations' Sustainable Development Goals advocacy training at Penn State. (2023, 2024)
- Part of the Global Boarders LLC Program (2023-24)
- Programs Organizer for South Asian Student Organization (2023-24)

ACHIEVEMENTS

Dean's List (Session 2023-24, 2024-25)

SKILLS/LANGUAGES

Proficient in Microsoft Word, Excel, PowerPoint, MySQL, Python, familiar with C, C++, Java, JavaScript, HTML, Linux