

GITIKA SAINI

University Park | PA, 16802 | 7044418494 | gittssaini@gmail.com

EDUCATION

The Pennsylvania State University | University Park, PA

Bachelor of Science Computer Engineering

Economics Minor, Cybersecurity Minor

Graduation: May 2027 (3.6)

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.
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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
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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)
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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