

# GITIKA SAINI

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## EDUCATION

### The Pennsylvania State University - University Park, PA

B.S. Computer Engineering | Minor: Cybersecurity, Economics

GPA: 3.6/4.0 | Dean's List (2023-25) | Graduation: May 2027

## WORK EXPERIENCE

**Intern at Tripletech, Mauritius** (Summer 2025) - IT firm focused on infrastructure, project management, and cybersecurity

- Optimized HIS workflows (registration, billing, discharge), reducing processing time by 10%
- Diagnosed and resolved 25+ network issues (IPv4, fiber optics), improving uptime across 10+ departments
- Enforced access control protocols, minimizing unauthorized login attempts by 30%
- Deployed secure hardware and facilitated VoIP setup across GRIT sites

## PROJECTS (More at: <https://github.com/gitsika119>)

- Web Apps:** Coded & deployed 2 full-stack apps ([ToDooze](#), [Sidequesting](#)), enhanced UX using vanilla JS & DOM API
- ML/AI:**
  - Led development of ML models (CNNs, ResNet-50, YOLOv8) in Python/TensorFlow, achieving 86% accuracy for image classification and reducing inference time by 20%
  - Trained NLP QA systems ([DocumentAns RAG](#)) and ML pipelines ([FlowerClassification](#)) using RAG architecture and fine-tuning, improving response accuracy and modularity
- C++/Python:** Programmed 8+ logic games using modular code to enhance debugging and analytical thinking

## COURSEWORK & CERTIFICATIONS

Certifications (More at: <https://www.linkedin.com/in/gitika-saini/>)

- Google Cybersecurity Certificate (2024):** Python, Linux, SQL, SIEM, IDS tools, threat detection, incident response
- The Web Developer Bootcamp,** Colt Steele – Udemy (2022): HTML, CSS, JavaScript, Node.js, Express, MongoDB
- Nittany AI Bootcamps (2024–25):** 8+ ML projects (data preprocessing, fine-tuning, RAG, CNNs, regression, etc.)
- Forage Virtual Job Simulations:**
  - Accenture (SWE):** Agile, architecture, security, testing
  - Deloitte (Cybersecurity):** Web log analysis, incident response
  - Mastercard (Cybersecurity):** Threat detection, security awareness
  - Johnson & Johnson (Robotics & Controls):** Sensor integration, control systems, automation

### Relevant Coursework

- CMPSC 121, 122, 221, 311** – Data Structures & Algorithms (DSA), Object-Oriented Programming (OOP), Systems Programming, Operating Systems (OS), Software Engineering

## EXTRA CURRICULAR AND LEADERSHIP EXPERIENCE

- United Nations' SDG Advocacy Training** (2023, 2024) - Sustainability and equity-focused project planning
- Resident Assistant**, Penn State (2025–Present) - Mentor for 118 residents, promote inclusion & provide resources
- Math Tutor**, Penn State (2025–Present) - Tutor undergraduates in foundational and advanced math coursework
- HackPSU Director** (2024–Present) - Led branding/UX, increased sign-ups by 20% for 700+ attendee hackathon
- ACM Officer**, Penn State (2024–Present) - Organize events for 100+ students, increased club participation by 5%
- Math 140 Learning Assistant**, Penn State (2024–25) - Facilitated weekly sessions aiding 40+ students in MATH140
- Global Engagement & Leadership Experience** (2023) - 1 of 50 students selected across Penn State for cross-cultural leadership and collaboration training
- Global Boarders LLC** (2023–24) - 1 of 3 students (of ~40) to complete PSU's international diversity-focused LLC
- SASO Program Organizer** (2023–24) - Organized 4+ cultural events attracting 200+ attendees, fostering intercultural dialogue

## SKILLS

**Languages/Frameworks:** Python, C++, JavaScript, SQL, Bash, HTML/CSS, TensorFlow, PyTorch, Jupyter

**Cybersecurity & Tools:** Linux, SIEM, IDS, Wireshark, Splunk, Git, API Integration, Network Protocols, Network Security

**Systems & Concepts:** SDLC, ML Pipelines, Threat Detection, Incident Response, NLP, RAG