

# 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

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## 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
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## 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
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## 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.)
- **Forge 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
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## 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 Borders 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
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## 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