

Sumedha Gajanan Pol

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Education

Bachelor of Science in Information Technology

The Pennsylvania State University, Center Valley

Anticipated Graduation: May 2027

Dean's list: Spring 2025, Summer 2025, Fall 2025

Relevant Courses

Organization of data - SQL

Network and Telecommunications

Security and Risk Analysis

Related Experience

Application Developer, Penn State Lehigh Valley — Summer 2025 to present

- Configured Meta Quest 3 hardware and unity software for use in a U.S Bureau of Justice Administration funded project
- Developed 2 immersive experiences which trained school personnel on handling cyberbullying scenarios
- Documented processes and applications as directed
- Collaborated with IST faculty and other stakeholders to accomplish project objectives

Comprehensive Networking Proposal Project — Spring 2025

- Led a team in developing a networking proposal for a state-wide sports competition
- Oversaw design of a hybrid network using Gigabit broadband and Wi-Fi 6 for high-density coverage
- Directed planning for live streaming infrastructure with CDN integration to ensure reliable, low-latency broadcasts
- Managed risk analysis and mitigation strategies addressing congestion, interference, and power failures
- Coordinated budget development, resource allocation, and producing project estimate

Research Assistant, Busse Lab, Ultraviolet Disinfection — Summer 2024

- Researched 4 low-flow pumps to improve UV disinfection with reduced environmental impact
- Designed and built a flow loop to simulate real-world disinfection conditions
- Collected and analyzed data on pathogen displacement and flow velocities to assess efficiency
- Optimized experimental setups for sustainable water treatment, marine remediation, and agriculture
- Collaborated with research team to develop innovative UV disinfection methods using natural phenomena

Software

Unity, Java, C#, MySQL, MATLAB, SolidWorks, Adobe Express

Publications & Conferences

CCSC Eastern Conference, Oct 2025 Arcadia University — Developing Immersive VR for Anti-Cyberbullying Training

SIGCSE TG Conference, Feb 2026 St. Louis, Missouri

Other Work Experience

Stylist, Banana Republic — Summer 2022, 2023 to present

- Curated personalized styling sessions for clients according to their preferences and current trends.
- Engaged authentically with customers to build relationships and address their styling needs.
- Assisted with sales floor operations, fitting room support, and back-of-house tasks to ensure seamless store functionality.

Involvement

Penn State Thon - On Campus Events Coordinator