Aman Sahu

amansahu9000@gmail.com — sahuaman.net

Education

Pennsylvania State University — Aug 2021 – May 2025

B.S Computer Science — **GPA:** 3.36

Deans List: *Fall 2021, Spring 2022*

Related Coursework: Data Structures, Formal Langauges, Operating Systems, Algorithms and Analysis, Applied Regression Analysis, Artificial Intelligence, Machine Learning

Certifications: *PCAP™ – Certified Associate Python Programmer*

Skills

Languages: Python, SQL, Swift, TypeScript
Libraries: flask, transformers, PyTorch, scikit-learn, streamlit, matplotlib, seaborn, JavaFX
Methodologies: SDLC, Agile, Waterfall
Tools: Git, Docker, Slack, ServiceNow, REST APIs, AWS (SageMaker, EC2, S3), Azure SQL Databases, Office365

Work Experience

Operations Analyst
Penn State Housing and Food Services, Middletown, PA — Aug 2024 - May 2025

- Validated and reconciled daily inventory and delivery data by accurately transferring records from Excel into internal database system
- Implemented front-end bug fixes on internal management tools, boosting stability and improving user experience

IT Services Student Team Manager
Penn State IT Services, Middletown, PA — June 2022 - May 2025

- Managed IT infrastructure and **ServiceNow** incident lifecycle to ensure seamless campus operations
- Lead and mentored 10+ student technicians, enhancing team communication and troubleshooting efficiency
- Delivered rapid hardware, software, and network support to 250+ students and faculty

Research Intern, MCREU Program
Penn State College of Engineering, State College, PA — April 2024 - July 2024

- Built translation pipeline—integrating Meta's SeamlessM4T-v2 NLP model into a **Swift** iOS application
- Engineered and containerized scalable **Flask/Gunicorn** API endpoints and deployed the model on **AWS SageMaker** (backed by **S3 storage** and **EC2 compute**)
- Drove iOS beta launch via TestFlight, gathering early user feedback to refine application workflows

Full Stack Developer Intern
Swan Softech Pvt Ltd, Raipur, India — April 2022 – Sept 2022

- Boosted file-tracking efficiency by 17% with a **Python/Angular** solution and migrated 5,000+ records to SQL database via phpMyAdmin, reducing query response times by 15%
- Versioned and refactored **REST APIs** using OOP best practices, improving API performance by 20%
- Ensured production-readiness through comprehensive unit testing, swiftly identifying and resolving issues

Projects

Rapha.AI — Python, tranformers, sk-learn

- Collaborated and built fine-tuned *Vision Transformer* and *ResNet* models for improving disease and cancer detection in medical images

SeamlessM4Tv2-API — Python, flask, Docker

- Deployable custom API endpoints for generating text-to-speech and speech-to-speech translations

Desktop Financing App — Java, JavaFX, Python, Seaborn

- Contributed to a **Java** accounting program as part of final year capstone project
- Showcasing collaborative software development skills and understanding of programming principles.