

# Sahu, Aman

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## Education

### Pennsylvania State University

B.S Computer Science

Aug 2021 – May 2025

**GPA: 3.4**

Deans List: *Fall 2021, Spring 2022*

**Certifications:** *PCAP™ – Certified Associate Python Programmer*

## Work Experience

### Operations Analyst

*Penn State Housing and Food Services, Middletown, PA*

Aug 2024 - May 2025

- Validated daily inventory 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
- Streamlined mass email communication for over 150+ users using Power Automate and When2Work API

### IT Services Student Team Lead

*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

- Fine-tuned *Vision Transformer* for improving disease classification in medical images, yielding 91% accuracy

### SeamlessM4Tv2-API

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

### Desktop Financing App

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

## Skills

**Languages:** Python, SQL, Swift, TypeScript, Java

**Libraries:** Flask, FastAPI, HuggingFace, PyTorch, scikit-learn, streamlit, matplotlib, seaborn, JavaFX

**Methodologies:** SDLC, Agile, Waterfall

**Tools:** Git, Docker, Slack, ServiceNow, REST APIs, Conda, AWS (SageMaker, EC2, S3), Azure SQL Databases