

# Aman Sahu

ajs9219l@psu.edu — linkedin.com/amans135 — github.com/as9219

## Education

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### Pennsylvania State University

B.S. Computer Science

Deans List: *Spring 2022*

Aug 2021 – May 2025

**GPA: 3.5**

**Related Coursework:** Data Structures, Formal Languages, Operating Systems, Algorithms and Analysis, Applied Regression Analysis

## Skills

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**Programming Skills:** Python, C++, SwiftUI, MySQL, Docker, Firebase, Angular Framework, Flask, transformers, sklearn, Streamlit, matplotlib, Seaborn, JavaFX.

**General Software & Tools:** Github Desktop/Git, Pip3, Slack, ServiceNow, Microsoft Excel, REST APIs, AWS (EC2 Instances, S3 Bucket), Azure SQL Databases

## Work Experience

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### IT Services Student Team Manager *Penn State IT Services*

June 2022 - Present

- Consistently Managing a team of over 15 employees, providing insight into day-to-day team tasks and tackling technical problems.
- Effectively manage and maintain university technology infrastructure, ensuring systems are updated.
- Assisted more than 250 students and faculty with technology issues, using **ServiceNow** to create incidents and employ curated problem-solving approaches.
- Proficiently deploy and verify university computers using Penn State's custom OS build-keys.

### Data Analyst *Penn State Housing and Food Services*

July 2024 - Present

- Analyzed large datasets and workbooks in Excel to optimize operations and identify key areas for efficiency improvements.
- Implemented a data analysis pipeline for insight extraction that processes transactions worth \$5M Annually.

### Research Intern, MCREU Scholars Program *Penn State College of Engineering*

April 2024 - July 2024

- Developed for providing accurate conversational translations between Doctors and Non-english speaking Patients.
- Integrated Meta's SeamlessM4T-v2 NLP model within **SwiftUI** iOS application environment.
- Implemented SeamlessM4T-v2 Model using Python's **transformers**, **Flask (Gunicorn)**, utilizing **Docker** container for ease of deployment.
- Deployed AI Model on **AWS SageMaker**, utilizing **AWS S3 Bucket** and **EC2 Instance** for public endpoints.
- Initiated early stages of deployment of iOS app using **TestFlight** for beta testing and user feedback.

### Software Developer Intern *Swan Softech Pvt. Ltd.*

April 2022 – Sept 2022

- Collaborated with senior developers and designers to implement file tracking system using **Python** and **Angular**.
- Utilized open source tools for optimization of resource management.
- Demonstrated fluency in writing production-ready code, implementing solid understanding of concepts in **Object-Oriented Programming**.
- Conducted thorough unit testing of the web application, effectively troubleshooting and resolving issues to ensure optimal performance.

## Projects

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**Communicator.AI:** Integrating AI into an iOS application for bridging language barrier between Doctors and Patients and providing accurate conversational translations.

### Capstone Project (DFA)

Jan 2024 - May 2024

- Collaborated with team of 4 people to create a financial management application.
- Utilized **Java** and **JavaFX** for main desktop application, **Seaborn** library for data visualisation, and **Azure SQL Databases** for secure data storage.
- Employed proper version control using **Github Desktop/Git**.