SHREYANSH SAHU

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EDUCATION

The Pennsylvania State University · **Graduation: December 2025**

Bachelor of Science in Computer Science · GPA: 3.86

- **Related Course:** Data structures and Algorithms, Systems Programming, Object Oriented Programming, Debugging
- **Certification:** Google Cloud Associate Cloud Engineer

EXPERIENCE

Software Engineer Intern · **May 2024 – July 2024**

CredenceSoft Private Limited, NZ · Remote

- Automated inventory management for **1000+** hotels on **Google Hotel Center** using **Python** scripts, collaborating with the data engineering team to boost update efficiency by **27%** and enable quick price adjustment
- Enhanced existing web scrapers using **BeautifulSoup** and **Selenium**, and integrated with company **APIs** to collect current hotel prices and competitor Online Travel Agency prices, reducing data retrieval time by **21%**
- Optimized data pipelines with **Google Cloud Dataflow** and **BigQuery**, facilitating dynamic pricing adjustments based on market data and competitor online travel agency prices

Undergraduate Research · **Oct 2023 – Present**

College of Information Science Technology · State College, PA

- Designed a VR maze simulation using **Unity** and **C#** to investigate spatial awareness for visually and auditorily impaired users, providing insights into their navigation abilities within virtual environments
- Worked closely with a multidisciplinary team, including accessibility experts and psychologists, to integrate an audio feedback system that provided precise audio cues for menu navigation
- Worked on implementing text-to-speech support with **Amazon Polly** in **Godot**, an open-source game engine, using **C++** to enhance accessibility by linking TTS with collision detection

PROJECTS

Order Kiosk and Kitchen Display System | *React, JavaScript, HTML, CSS, Node.js, AWS, MySQL*

- Developed a full-stack order management system to streamline order taking and fulfillment for a food stall at 4H
- Reduced customer wait time by **34%** and increased the number of customers served per day by **12%** by deploying multiple kiosks during peak hours, utilizing React, JavaScript, and Node.js for backend development
- Improved order handling efficiency, cutting the average order handling time from **5 minutes** to **3 minutes**, by implementing a Kitchen Display System that streamlined kitchen workflows
- Utilized AWS RDS, Route 53, and EC2 for reliable web app deployment, SQL for database management, and Kubernetes for scalable container orchestration, ensuring efficient management of the deployment environment

Solar System Simulation | *C++, OpenGL, GLSL*

- Developed a solar system simulation using OpenGL and C++, incorporating physics-based simulations to model gravitational interactions and planetary movements accurately
- Applied different rendering techniques, including real-time shading and texture mapping, to simulate realistic planetary surfaces and lighting conditions based on textures from NASA's website
- Implemented realistic lighting and dynamic shadows, accurately simulating phenomena like solar eclipses

LEADERSHIP

Technology Lead | *PSU Google Developer Student Club* · **Jan 2024 – Present**

- Led **5+** interactive workshops, focusing on technologies like Unity, Kubernetes, Docker, and Google Cloud Platform, which equipped **100+** students with hands-on experience

IT Student Support Specialist | *Penn State IT* · **Aug 2023 – Present**

- Supervised a team of IT student support staff, overseeing daily operations and providing guidance to ensure effective handling of customer inquiries via telephone, email, and in-person interactions