Sameer Ahmed

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EDUCATION

The Pennsylvania State University, University Park   **Expected Graduation: May 2026**
Bachelor of Science in Computer Science, Minor in Engineering Leadership Development   **GPA:** 3.75/4.00
Awards and Honors: Most Innovative Solution Award Winner 2025, HackPSU 2024 Winner, President Walker Award Recipient
Relevant Coursework: Object Oriented Design, Software Design, Digital Design, Programming in C++, Data Structures and Algorithms, Artificial Intelligence, Computer Organization and Design, Systems Programming, Project Management, Networks

WORK EXPERIENCE

Software Development Intern at ITCON Services, Vienna, VA   (Jun 2025 – Aug 2025)
- Designed and deployed Microsoft Power Apps and Power Automate solutions to streamline FEMA subcontractor record management and data integration, reducing processing time and enhancing overall workflow efficiency across teams
- Automated workflows that reduced manual data entry by over 40% and introduced automatic error detection, integrating Power Platform solutions with SharePoint and Microsoft Dataverse, enhancing system efficiency and scalability
- Collaborated with cross-functional teams to deliver user-friendly, accessible applications, integrate external APIs, and provide technical support and training to 50+ end-users, ensuring long-term system reliability and successful adoption

Intern at Contour Software, Karachi, Pakistan   (Jul 2024 – Aug 2024)
- Designed a team selection model and business plan for a sports league, optimizing player combinations and replacements for 100+ athletes, receiving positive feedback from 5 key stakeholders for its strategic value following presentation
- Collaborated with QA engineers to design and execute test cases, leveraging Jira for bug tracking, sprint planning, and backlog management, while gaining experience with Agile methodologies and improving overall product quality

IT User Support Specialist at Pennsylvania State University, State College, PA   (Dec 2023 – Present)
- Provided technical support for 20+ weekly hardware, software, and network issues, leveraging tools such as ServiceNow, Amazon Connect, Office 365, and Digital Identity Management Center to ensure rapid resolution and minimize downtime
- Performed diagnostics, system configurations, software installations, and account management for both Windows and macOS environments, achieving a 95%+ user satisfaction rate across diverse student and faculty support requests

PROJECTS

Notescope - *HackPSU 2024 – Awarded Peraton Challenge Most Creative Implementation of Generative AI*
- Developed an AI-powered notebook application leveraging OpenAI API, Next.js, Node.js, Firebase, and MongoDB to deliver real-time lecture transcription, AI-driven summarization, and intelligent Q&A support during a 24-hour hackathon
- Enhanced lecture efficiency for students by integrating speech-to-text and chatbot features into a seamless user interface

Seeker - *Penn State College of Engineering Design Showcase – Awarded Most Innovative Solution*
- Engineered an AI-powered Foreign Object Detection and Removal system using YOLOv8, Raspberry Pi, real-time object tracking, alerting system, and depth mapping, reducing airport debris response time from over 30 minutes to under 5
- Built a working prototype with a camera-based tower, improving detection accuracy by 85% for the design showcase

Solar-Powered Poultry Health Monitoring System - *Capstone Project – Awarded Best Innovation in Agricultural Sciences*
- Built and trained CNN-based computer vision models for automated poultry health detection using optical and thermal image data, developing data preprocessing workflows, labeling strategies, training, and real-time inference pipelines
- Developed end-to-end software systems for AI integration, including image capture, model inference, sensor data fusion, and robust structured logging mechanisms, optimized for deployment on Raspberry Pi edge devices in field environments

CAMPUS INVOLVEMENT

- Course Grader, Programming Concepts (CMPSC461) — Pennsylvania State University, State College, PA (2025)
- Research Assistant, Dr. Suman Saha — Pennsylvania State University, State College, PA (2025)
- National Champion & Best Batsman (NCCA 2025), Penn State Cricket Team — Houston, TX (2025)
- Global Ambassador and Representative — Pennsylvania State University, State College, PA (2024)

TECHNICAL SKILLS

Languages: Java, JavaScript, TypeScript, C/C++, SQL, HTML/CSS, MIPS Assembly, VHDL, R
Frameworks & Libraries: React, Next.js, Node.js, Tailwind CSS, Firebase, OpenAI API, Pandas, NumPy, Java Swing, YOLOv8
Developer Tools: Git, GitHub, VS Code, IntelliJ IDEA, JIRA, Microsoft Power Platform, Vivado, Linux, Cursor
Cloud Platforms: Google Cloud Platform, Microsoft Azure, Amazon Web Services (AWS)