AAYUSH KUMAR SINGH

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Objective: Aspiring Project Manager seeking a summer internship to deliver innovative solutions and drive project success

EDUCATION

The Pennsylvania State University, Pennsylvania, United States of America	Aug 2024 – Dec 2025

Master of Engineering in Engineering Leadership and Innovation Management

Jaypee University of Engineering and Technology, Guna, India	Sep 2020 – May 2024
Bachelor of Technology, Major in Computer Science and Engineering	**CGPA: 7.1/10**

Technical Skills: Python, SQL, React JS, Flask, Visual Studio Code, Microsoft Excel

CERTIFICATIONS

CPE 1204 Lean-Sigma Process Improvement Yellow Belt	February 2025
Siemens Mobility - Project Manager Job Simulation	February 2025
IDP: Project Management Series ⟨PJT-100⟩	November 2024
Foundations of Project Management	Google	November 2024

RELEVANT EXPERIENCE

Management Consultant Intern, *Modus Enterprise Transformation Platform - Remote*   *Mar 2024 - May 2024*

- Collaborated with a cross-functional team of 5 to deliver tailored strategic consulting solutions, for 3 clients
- Developed tailored value chains aligned with client business models, boosting operational efficiency by 15% and supporting a 10% growth in quarterly revenue
- Analyzed data using Excel and SQL to develop business strategies, leading to 20% reduction in operational costs
- Utilized Microsoft Excel for asset assessments, contributing to the development of 10 key performance indicators (KPIs), enhancing client reporting accuracy by 25%

Project Trainee, *Raja Ramanna Centre for Advanced Technology (RRCAT), Indore, India*   *Jun 2023 - Aug 2023*

- Designed and developed a Vacuum Application Visualizer using React JS and Flask, integrating real-time data analysis, enhancing department performance by 2x
- Led a team of 4 to implement a scientific data visualizer using React and Flask, increasing operational efficiency by 15% and reducing data processing time by 20%
- Used SQL Server Management Studio to extract and manage data, integrating backend with frontend for seamless project execution, reducing system downtime by 10%
- Mentored 3 junior team members, fostering collaboration, and increasing team performance by 15%

ACADEMIC PROJECTS

AgriSave, The Pennsylvania State University, Pennsylvania, United States of America   *Sep 2024 – Dec 2024*

- Developed an AI-powered precision agriculture tool that optimized water use by 40%, reduced fertilizer costs by 25%, and increased crop yields by up to 30% for smallholder farmers in Brazil, while enhancing climate resilience and promoting sustainable farming practices

Smart Baggage Tracker Development, *Airport Cooperative Research Program Penn State University*   *Aug 2024 – Dec 2024*

- Developed a smart baggage tracker using GPS and RFID integrated a user-friendly design with a custom PCB

Vacuum System Visualizer, *Raja Ramanna Center for Advanced Technology - Indore, India*   *Jun 2023 – Aug 2023*

- Developed a data visualization tool using SQL, React, and Python to analyze vacuum system performance, improving operational efficiency by 35% and reducing data retrieval time by 40%
- Trained 5 scientific officers in utilizing the visualization tool increasing proficiency in data visualization by 90%

Interviewer Bot, *Jaypee University of Engineering and Technology – Guna, India*   *Sep 2022 – Dec 2022*

- Developed an AI-powered interviewer bot using Python and Visual Studio Code to simulate interview scenarios
- Impacted 400+ students by offering mock interview practice sessions, resulting in a 50% improvement in interview readiness as measured by the Training and Placement Department

EXTRACURRICULAR ACTIVITIES

Joint Secretary   *Jaypee Youth Club (JYC), Guna, India*   *Sep 2022 - May 2023*

- Coordinated a team of 60 students to plan and execute events such as cultural festivals and talent shows

Community Outreach Coordinator DEI   Indian Graduate Student Association, University Park   Sep 2024 - Current

- Coordinated "Mela" event attended by 500+ students enhancing cross-cultural understanding and community engagement

Member of Engineering Leadership Society   Engineering Leadership Society, University Park   Sep 2024 - Current

- Mentored students on selecting engineering majors and organized networking events with corporate employers.