Vaibhav Kumar

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EDUCATION

The Pennsylvania State University   **University Park, PA**
BS Computer Science, Minors: Cybersecurity, Engineering Entrepreneurship   **Graduation Date: May 2026**
Dean's List: Fall 22, Spring 23, Fall 23, Spring 24, Fall 24   **GPA: 3.88/4.00**

EXPERIENCE / LEADERSHIP

MyMedha   **Mumbai, India**
Startup Intern   *July 2024 – Aug 2024*
- Collaborated toward a business model aimed at empowering young adults potentially impacting 20,000+ individuals.
- Performed in a team utilizing web development frameworks including, React, NextJS, Typescript, Javascript, PostGreSQL, Tailwind CSS, to build a scalable website, maintaining over 7,000+ lines of code.
- Conducted internal testing and debugging, identifying and resolving 20+ issues to better prepare for a robust launch.

The Hyperloop Development Club at Penn State   **State College, PA**
Vice President / Co Founder   *Sep 2024 – Present*
- Spearheaded the founding of a student organization, assembling a team with 25 individuals from 8 disciplines.
- Anticipate to research and develop Hyperloop transportation technology, securing $20,000+ in sponsorship by 2026.
- Developing a website, managing 10+ pages of content and integrating interactive features to increase recruitment.

The Association for Computing Machinery, Penn State   **State College, PA**
Secretary   *Sep 2023 – Present*
- Maintained and organized website and mailing lists to facilitate communication within a club of over 2000+ participants.
- Promoted events through email communications, achieving a 20% increase in participation among members.
- Facilitated the onboarding of 100+ new members each semester by providing information and resources by providing information and resources about club activities, leading to a 10% increase in member retention.

PROJECT EXPERIENCE

Smart Trolley System   *Aug 2024 - Present*
Research – Collaboration with peer from MIT World Peace University, India
- Designing a comprehensive system architecture integrating IoT sensors, RFID technology, and Computer Vision. Aspiring to analyze data from over 1,000 shopping sessions to identify patterns and optimize system performance.
- Intend to integrate with the existing inventory management system, reducing manual data entry by 80%.
- Plan to use C / C++ for the embedded systems programming for the project.

Lead Software Developer - Alexa ASK-SDK Skill Development   *Jun 2024 - Jul 2024*
Larsen & Toubro, India
- Collaborated with L&T Technological Services Mysuru, India. Helped formulate Alexa Skill integrations with automotive systems, enhancing navigation accuracy for 10,000+ cities.
- Contributed to Smart Vehicle technologies by developing real time distance calculations using Python.

Lead Developer - Travalis (AI based Online Travel Agency)   *Oct 2024 - Present*
Android App Development – Personal Project / Startup
- Developing an online travel agency powered by AI, enabling personalized trip planning and delivering rewards for students.
- Enhancing student engagement by integrating an accelerated loyalty program targeting a 20% growth in repeat bookings.

Lead Software Developer - Inchat Texting App (Android)   *May 2021 - Dec 2022*
Android App Development – Personal Project
- Developed a social media application using Java, Android Studio, and Google Firebase for Android Systems.
- Obtained hands-on experience with Android app development, Java, and backend integration using Firebase.

RELEVANT CERTIFICATIONS / SKILLS

Udemy   **SAE India Online**
The Complete Android T + Java Developer Course   *Real Time Object Detection and Video processing*

Udemy (Currently Pursuing)   **Udemy (Currently Pursuing)**
Foundation course on Embedded C programming.   *Digital Marketing*

Skills: Java, C, Python, HTML, CSS, XML, VSCODE, Tailwind CSS, Node, PostgreSQL, ReactJS, Linux, Unix, Android Studio, Google Firebase, SQL, Git, GitHub, Jira, Javascript, Blender, AWS, Cryptography, pytorch, scikitlearn, pandas, numPy