# PRAKHAR VERMA

Fort Wayne, IN | +1 (952) 219-1256 | connect@iprakharv.com | www.linkedin.com/in/iprakharv | www.github.com/iPrakharV

## EDUCATION

**PURDUE UNIVERSITY |** *Dean's & Semester Honor's List | Honors College* **INDIANA**
*B.S. in **Computer Science**, Minor in **Mathematics** | **4.0 GPA*** May 2027
**Relevant Coursework:** Data Structures and Algorithms, Object Oriented Java Programming, Discrete Mathematics, Computer Architecture, Linear Algebra, Analytic Geometry, Calculus.

**The National Society of Leadership and Success (NSLS)** | Fort Wayne, IN | Nominated Member December 2023 - Present
Selected by Purdue for membership **based on excellent academic standing and leadership potential**.

## EXPERIENCES

**Google Developer Group** | *Campus Organizer* Fort Wayne, IN | July 2024 - Present
- Organizing Google technology-focused events, increasing active participation by planning **25+ technical workshops annually**.
- Collaborated with **Google developers** on sessions for **Android, AI, web APIs**, and cloud services.
- Launched mentorship program linking 10,000+ students with industry pros for skill development.

**Medical Informatics Engineering, Inc.** | *Software Development Intern* Fort Wayne, IN | May 2024 - Present
- Developed **AES-encrypted IoT access control system** using Raspberry Pi 5 and ESP32**, integrated with Apple Wallet** for secure user authentication.
- Developed a **real-time voice transcription system** using ASR technologies such as Google's Speech Recognition, Mozilla's DeepSpeech, and **OpenAI's WhisperAI, improving transcription accuracy and efficiency**.
- Led the creation of a smart medical **real-time voice transcription** system using ASR technologies (Google's Speech Recognition, WhisperAI), **integrated with our EHR platform**, driving a product line **valued at over $15 million** in the rapidly growing healthcare tech market.

**Purdue FW Robotics Club** | *Vice-President* Fort Wayne, IN | October 2023 - Present
- Led the club in developing and implementing robotics **projects using Arduino and OpenCV**, which enhanced practical engineering skills among members and increased project participation.

**CodeDay** | *Regional Manager* Seattle, WA | April 2023 - Present
- Led multiple hackathons across India, **drawing 5000+ high school students across events**.
- Hosted **50+ workshops on Python, Git, and transformer AI models**, enhancing skills for 300+ attendees.
- Oversaw nationwide event logistics and sponsor relations, ensuring smooth operations.
- **Mentored 1000+ students** in Python, AI, and web development, boosting their technical expertise.

## PROJECTS

**SafeFall** | *OpenCV, MediaPipe, PyTorch, JavaScript, HTML5, CSS, Vercel, Raspberry Pi | People's Choice Winner- Regeneron* May 2024
- Created SafeFall with **OpenCV,** aiming to **enhance fall detection accuracy by 30%**.
- Utilized **MediaPipe and PyTorch for real-time pose analysis**, reducing false test positives by 25%.
- Built **responsive alerts using JavaScript**, ensuring instant notification across devices.
- Proposed scalable deployment across 10+ hospital settings with Firebase.

**SkyCanvas** | *Flask, Python, HTML, JavaScript, OpenCV* April 2024
- Developing innovative software that processes **drone positioning data in real-time**, optimizing image fidelity and **achieving 95% accuracy**.
- Implemented a **Flask-based control platform**, boosting user interaction and display management efficiency by 30%.
- Planning to direct comprehensive simulation tests and live demonstrations, maintaining 100% compliance with safety regulations.

**MailMark** | *Flutter, Firebase, Dart, Vercel* March 2024
- Made a cross-platform **branding tool for professionals**, reaching 60 FPS and < 2 seconds startup, **currently serving 1,000+ users**.
- Implemented **Firebase** for efficient data handling and user authentication, enhancing operational reliability.
- Received initial **funding of ₹180,000 from angel investor**.

**TronooMega** | *Python, Java, Arduino, OpenCV | 2nd Position- IARRC 2019- Uni. Of Waterloo* March 2020
- Secured 2nd place at Uni. of Waterloo in RoboRace that processes real world data to detect traffic lights & pedestrians.
- Engineered an **Arduino-based collision avoidance mechanism** improving vehicle trajectory adjustments by 25% in variable environments.
- Integration of advanced sensor technology into autonomous vehicle safety protocols, reaching a projected reduction in road incident rates by 25% through precise environmental detection and response capabilities.

*Note: My **50+ projects** are available on LinkedIn & GitHub.*

## HONORS & AWARDS

- Letter of Commendation, **Defense Minister of India- top 3% academic performance** nationally.
- 1st Place Robotex India- RoboSumo, 1st Place Robo War- Robotex India, 1st place TechFest Zonal 2020, 1st place- RoboRace Entente 2022, Judge's Choice IARRC 2019- **Uni. Of Waterloo**, 1st Position- **Purdue Engineers' Week**- Bridge Building Competition, Winner- Health Tech Innovators hackathon- Regeneron, 2nd Place- Purdue CASE Competition 2023**,** 6th Place Techfest 2021.

## SKILLS

- **Languages** Java, Python, C++, Dart, Blueprint, Swift, HTML5, JavaScript, CSS3, Bhai-Lang, Latex, Bash
- **Tools & Frameworks** Arduino, Raspberry Pi, ESP32, FireBase, Flutter, PyTorch, OpenCV, Flask, Git, IoT, Automation
- **Operating System** Linux, Ubuntu, MacOS, Windows, Raspbian