Shiwang Pandey

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SKILLS

- **Programming Languages:** C++, Python, C, Kotlin, JavaScript, HTML, CSS
- **Frontend Development:** React.js, Next.js, Tailwind CSS, Bootstrap
- **Backend Development:** Node.js, Express.js, Prisma, Mongoose
- **Databases:** MongoDB, PostgreSQL
- **Cloud & DevOps:** WS (EC2, S3, CloudFront, Certificate Manager), Nginx, Linux
- **Machine Learning**: Python (Pandas, NumPy, Scikit-learn)
- **Mechanical Design Tools:** Fusion 360, SolidWorks, ANSYS
- **Graphic Design:** Photoshop, Figma, Canva

EDUCATION

- B.Tech | Government college of Engineering Nagpur — *CGPA*: *7.6*
- XII (HSC) | St. Paul Jr. College — *90.5%* | *2021*

EXPERIENCE

- **Freelanced | Web Developer (March 8, 2024)**
  - Built **Vegan Hub** website using **React.js**, **Tailwind CSS**, **Express.js**, and **MySQL**.
  - Project: Vegan Hub | GitHub

- **Ekaansh Foundation | Freelanced Web Developer (May 26, 2023 - June 3, 2023)**
  - Developed a **PWA** using **React.js** and **Tailwind CSS**.
  - Project: Kaal Sarp Dosh Puja Mahakal | GitHub

- **Txon | Web Design Intern (March 3, 2023**)
  - Created **HTML**, **CSS**, and **JS** tutorial websites.
  - Project: Web Development Tutorial | GitHub

- **CodeClause | AI Intern (April 1, 2023)**
  - Developed **House Price Prediction** and **Gold Price Prediction** apps.
  - House Price Prediction | Gold Price Prediction

- **Oasis Infobyte | Full Stack Developer Intern (April 1, 2023)**
  - Created a **Pizza Delivery App**.
  - Project: Pizza Delivery App

- **OrbitSys Consultancy Pvt. Ltd. | Software Intern (June 1, 2024 - July 30, 2024)**
  - Developed a website, mobile app, and **PGP encryption** using **Python** and **Linux**.

- **Cisco AICTE Virtual Internship | Cybersecurity Intern (May - July 2024)**
  - Completed Cybersecurity internship.

ACADEMIC PROJECTS

- **Model Rocket** Project (Final Year, 2024)
- **Title:** 1km Model Rocket with Sensors and Cameras
- **Objective:** Developed a model rocket designed to reach an altitude of 1 km, equipped with cameras, sensors, and telemetry systems for pressure, acceleration, and velocity measurements.
- **Technologies Used:** Raspberry Pi, Arduino, Python, Fusion 360, SolidWorks, Sensors (IMU, Pressure, Temperature), LoRaWAN, PGP Encryption.
- **Key Achievements:**
  - Designed the rocket and nozzle to achieve a speed of 352 m/s, ensuring stable flight and recovery.
  - Integrated telemetry systems to track altitude, pressure, and temperature variations during flight.
  - Successfully deployed parachute recovery system for soft landing.
  - Captured real-time video and environmental data throughout the flight.
- **Applications:** This project demonstrated understanding of aerodynamics, compressible flow, and the use of sensors in real-time data collection, applicable in satellite launching and payload deployment.

POSITION OF RESPONSIBILITY

❖ **Vice President & Web Developer | Mechanical Engineering Student Association (MESA), GCOEN (Sep 2022 – Aug 2024)**

➢ **Vice President** (Sep 2023 – Aug 2024): Led a team of 100+ members and organized a tech fest with 3,000+ participants. Managed various initiatives and activities within the association.

➢ **Web Developer** (Sep 2022 – Sep 2023): Designed and developed the official website for MESA, streamlining information access and event updates for students.

❖ **Executive Body & Financial Director | Rotaract Club, GCOEN (Jun 2022 – Jun 2024)**

➢ **Executive Body** (Jul 2023 – Jun 2024): Coordinated club activities and helped lead community outreach programs.

➢ **Financial Director** (Jun 2022 – Jul 2023): Managed financial operations, budgeting, and fund allocation for the club's events and activities.

❖ **TPO Coordinator | Training and Placement Office, GCOEN (Apr 2023 – Jan 2024)**

➢ Coordinated placement-related activities, liaised with companies, and assisted in organizing recruitment drives for students.

❖ **Technical Lead & Tech Team Member | Google Developer Student Club (GDSC), GCOEN (Aug 2022 – Sep 2023)**

➢ **Technical Lead** (Aug 2023 – Sep 2023): Led technical initiatives, conducted workshops on Web Development, and mentored students on various technologies.

➢ **Tech Team Member** (Aug 2022 – Aug 2023): Assisted in organizing coding events and contributed to technical aspects of the club's projects.

❖ **Technical Co-Head | Mechanical Engineering Department, GCOEN (Oct 2022 – Apr 2023)**

➢ Led technical projects and workshops for the department, focusing on developing technical skills among students.