Pankaj Kumar

Bihar sharif, Nalanda,803101, Bihar 8544026713 | pankajpk7017kr@gmail.com

https://www.linkedin.com/in/pankaj-kumar-563304238/

panGIHUB (PANKAJ KUMAR) | https://pangihub.github.io/pankajkumarportfolio/

Objective	
I seek challenging opportunities to fully use my skills for the organiza	tion's success.
——— Education	
National Institute of Technology, Srinagar (B-Tech) in Electronics and Communication Engineering	2021-2025
PCP College, Sohsarai, Nalanda, BSEB Intermediate (12th), PCM	
Aadarsh High School, BSEB Matriculation(10th)	
Technical Skill	
Programming Languages: Python, C, C++, SQL	
Web Development: HTML, CSS, JavaScript, React.js	
Databases: MySQL, DBMS Software Pavalanment: Data Structures and Algorithms, OOBS	
Software Development: Data Structures and Algorithms, OOPS Frameworks & Libraries: React, Next.js	
Developer Tools: VS Code, Jupiter Notebook, MySQL Workbench, VIv	vado, MATLAB
Operating Systems: Windows, Linux	,
Embedded Systems & FPGA: Knowledge of Analog and Digital Electron	onics, Microprocessors,
Microcontrollers, VHDL, etc.	
Project	

8085 Microprocessor Emulation using FPGA (Ongoing)

- Designed an 8085 Microprocessor emulator using VHDL and FPGA, focusing on components like Accumulator, ALU, Temporary Register, and Flag Register.
- Implementing VHDL modules (AU.vhdl, LU.vhdl, MUX.vhdl, and master.vhdl) to simulate the microprocessor's functionality.

Underwater Image Enhancement (Completed – IIT Guwahati Internship)

- Implemented **image processing techniques** using **Python and OpenCV** to enhance underwater images.
- Focused on white balance correction and global enhancement to improve image visibility and clarity.

Portfolio Website (Live)

- Designed and developed a personal portfolio website showcasing skills, projects, and achievements.
- Built using React.js, HTML, CSS, and JavaScript with a responsive and user-friendly design.

Advanced Dashboard (Ongoing) – React.js dashboard with data visualization and analytics. **Student Database Management System (Ongoing)** – A CRUD-based system for managing student records efficiently.

Word Count Application (Completed & Deployed) – Firebase-hosted app for real-time word and character counting.

Currency Converter Web App (Completed) – HTML, CSS, and JavaScript-based converter with real-time exchange rates.

Certificate -

Internship Certificate – IIT Guwahati (Dec 2023 – Feb 2024)

"Optimizing Underwater Image Quality: White Balance and Global Enhancement Techniques" (Python, OpenCV)

online WGCapD Webinar Series on "Geoprocessing using Python". - IIRS (ISRO)
Indian Nanoelectronics Users' Programme -idea to innovation -IIT Kharagpur
The fundamentals of digital marketing -Google Digital Unlocked
C, C++, SQL -Lets Upgrade

Tools for Data Science -IBM

Work Experience

Research Intern – Indian Institute of Technology (IIT) Guwahati Dec 2023 – Feb 2024

- Worked on underwater image enhancement using Python and OpenCV to improve image clarity.
- Implemented white balance correction and global enhancement techniques for better visual quality.

	∖ctivities

Technical Projects – Developed software, web, and embedded system projects. **Certifications & Training** – Participated in programs from **IIT Kharagpur, NPTEL, and IIRS. Leadership & Teamwork** – Led multiple academic and personal projects. **Graphic Design** – Designed visuals for **college programs** and events. **Public Speaking & Communication** – Engaged in presentations and knowledge-sharing.

Achievment -

- 500+ solved questions on leet-code
- 2nd position in district-level debate competition