

NABIN PAUDEL

IT ENGINEER

Bhaktapur, Nepal | er.nabinpaudel1@gmail.com | nabinpaudel1.com.np | 9840033027

SUMMARY

Recently graduated Information Technology Engineer and licensed Engineer with the Nepal Engineering Council, currently working as a Software Engineer at Artus System. Experienced in full-stack application development with an academic background in networking, communication systems and IoT. Eager to apply both software engineering and networking knowledge to IT and network systems roles.

WORK EXPERIENCE

Junior Developer

Aug 2023 - Present

Artus System

- Design and develop full-stack systems with scalable, network-ready architectures and data pipeline readiness.
- Build and optimize complex application workflows and responsive, user-facing interfaces.
- Deploy and maintain production-grade applications with emphasis on system security and performance.
- Support data-oriented features and prepare systems for future AI/ML and analytics integration.

EDUCATION

Bachelor of Engineering, Information Technology

April 2022 - May 2026

Nepal College of Information Technology (Pokhara University) | GPA: 3.79

Relevant Coursework & Labs:

- Communication Network Theory - network design, subnetting, routing and topology simulation using Cisco Packet Tracer
- Mobile & Wireless Communication - cellular network fundamentals and wireless system concepts
- Basic Electrical & Electronic Devices, Instrumentation - signal processing and measurement labs using MATLAB
- Telecommunication Engineering - transmission systems and core communication principles

High School (+2)

July 2019 - Sept 2021

Trinity International College | GPA: 3.39

LICENSES & CERTIFICATIONS

- Registered Engineer, Nepal Engineering Council (NEC) - Information Technology Engineering | License No.: [99869]

TECHNICAL SKILLS

Networking & Telecom Fundamentals: Communication Network Theory, Mobile & Wireless Communication, Basic Electrical & Electronic Devices, Instrumentation, TCP/IP basics

Network & Signal Tools: Cisco Packet Tracer (network simulation), MATLAB (signal processing)

Programming Languages: C, C++, Python, SQL, JavaScript

Frameworks/Technologies: React, Flutter, Tailwind, Django, Fast API

Developer Tools: Git, GitHub, GitLab, VS Code, Jupyter Notebook, Android Studio, Docker, Xampp

PROJECTS

IoT-Powered Smart Poultry Monitoring System

Role: Software Developer | Node.js, IoT (ESP32), Flutter, SMTP

- Designed and built the end-to-end architecture for a wireless, sensor-connected IoT monitoring system using ESP32 controllers and DHT22 sensors.
- Developed a mobile app for real-time monitoring and automated control of temperature and humidity, with SMTP-based alerting.

- Applied wireless communication and instrumentation concepts from coursework to deliver a scalable, connected-device solution.

A Legal Case Platform Powered by Context-Aware AI Agents

Role: Systems Architect & Mobile App Developer | Django, FastAPI, LangChain, RAG, Qdrant, Flutter, Docker

- Designed the overall system architecture for a multi-platform system spanning web and mobile applications.
- Built core modules for search, verification, booking, and case management, integrating an AI-assisted search component.

PUBLICATIONS

An Integrated System of IoT-based Agriculture, Disease Detection and News Classification

Sanjib Shah, Manish Poudel, Sunil Nath, Aman Sheikh, Nabin Paudel, Roshan Chitrakar. Proceedings of the International Conference on Innovation in Computing, Science, Engineering and Technology, Vol. 2 No. 1, p131-140 (Dec. 2025).

ACHIEVEMENTS & AWARDS

- University Topper, 2025 Fall Examination, Department of IT Engineering
- Best Innovative Award, KEC 32-Hour Hack-a-lite, Project Kukhurikaa
- Bachelor of Engineering Scholarship Holder
- Diligent Student Scholarship, Police Welfare Fund

VOLUNTEERING

Vice-Chairman

IEEE NCIT Student Branch

- Planned and executed IEEE Student Branch programs and events, ensuring smooth operations.
- Managed elections and annual initiatives, driving member engagement.
- Strengthened collaboration with IEEE Sections, Regions, and other branches to expand outreach.

Club IT Chair

Rotaract Club of Central Valley Kasthamandap

- Managed the club's IT infrastructure, including website and digital platforms.
- Oversaw social media and digital communication to expand outreach.

Co-Lead

NOSKATHON LITE - 2025

- Co-led NOSKATHON LITE 2025, managing planning, coordination and execution of the hackathon.
- Supervised participant onboarding, team formation, and event scheduling.

REFERENCES

Er. Niranjana Khakurel - Principal, NCIT College

Email: niranjan@ncit.edu.np | Phone: 9851198517

Prof. Dr. Roshan Chitrakar - Project Co-Ordinator, NCIT College

Email: roshanchi@gmail.com | Phone: 9840050150

Sudip Budhathoki – Managing Director, Artus Systems

Email: sudip@artus.com.np | Phone: 9851077114