DIPSON THAPA

Department of Computer Engineering
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CAREER SUMMARY

I am a Computer Engineer passionate about building practical and scalable technology solutions. I am motivated to apply my technical skills across diverse areas such as software development, web technologies, and data analysis, while continuously learning and adapting to new technologies.

PROJECT EXPERIENCE

Ishara Setu - Nepali Sign Language Detection System   Jan 2025 – Aug 2025

- Collected and curated 13,500+ NSL video samples covering 51 sign classes, captured at 25 FPS under diverse lighting conditions using Python + OpenCV.
- Performed data preprocessing including frame extraction, normalization, and gesture-region filtering.
- Tools: Python, OpenCV, NumPy, Pandas, Matplotlib, TensorFlow, Keras, Jupyter Notebook, and OpenCV Video Capture for data processing.

Notera - Notes Management System   Mar 2024 – Aug 2024

- Designed web platform for organizing academic notes.
- Tools: PHP, MySQL, XAMPP, HTML, CSS, JavaScript, and Bootstrap for web and database management.

PROFESSIONAL EXPERIENCE

Lab Assistant – Computer Department, NEC   Nov 2025 – Feb 2026

- Assisted in laboratory setup, hardware installation, and routine equipment maintenance.
- Supported students with coding issues in Python, C, and data structures.
- Provided technical troubleshooting for software errors, system crashes, and network issues.
- Ensured smooth functionality of lab devices and coordinated repair/maintenance when required.

FIELD EXPERIENCE

- Study on Telecommunication System at Nepal Telecom, Kushma, Parbat District, Western Nepal
- Study on the Wire Production Process at a cable manufacturing plant in Pokhara, Western Nepal
- Study of Renewable Energy Generation and Turbine Operation at the Middle Marsyangdi Hydropower Station, Aanbu Khaireni, Tanahun District, Nepal.

EDUCATION

- Nepal Engineering College, Pokhara University   2021 - 2025
  Bachelor of Computer Engineering | CGPA 3.46

- Xavier International College, NEB   2018 - 2020
  +2 Computer Science | CGPA 3.65

AWARDS & PROFESSIONAL AFFILIATIONS

- Multiple Semester Scholarships, 6th, 7th & 8th Semesters **(4.0/4.0 GPA)**
- Certified: Python for Everybody – University of Michigan (Coursera)   2020
- Certified: Scientific Computing with Python – FreeCodeCamp   2024
- Certified: Cyber Security for Awareness – Udemy   2025

VOLUNTEER WORK

- NEC Ingenium – Nepal Engineering College   2025
- Karmalaya – Nepal Engineering College   2025

TECHNICAL SKILLS

Programming & Databases
- Python, C, C++, Java
- Bash Scripting (Basic)
- MySQL

Web and Software
- HTML, CSS, JavaScript
- Django

Networking & Tools
- Basic networking (IP config, DHCP, routing)
- Cisco Packet Tracer
- Git & GitHub

Other Technical Skills
- Excel & data handling
- Documentation & reporting

KEY SKILLS

- Research and management skills
- Leadership skills
- Analytical skills
- Interpersonal skills
- Academic writing
- Editing skills