Shankar Aryal

Electrical Engineering Student | Cybersecurity Enthusiast | Full Stack Developer

Libali-08, Bhaktapur | contact@shankararyal404.com.np | www.shankararyal404.com.np

Profile

Electrical Engineering undergraduate studying at Khwopa College of Engineering with a specialization in Renewable Energy/PV Systems and self-directed expertise in Software Development/Cybersecurity. Experienced in full-stack web development and ethical security testing. Seeking to leverage this hybrid skillset in modern power infrastructure, smart grid technologies, or engineering roles where hardware intersects with digital security.

Education

Khwopa College of Engineering (Tribhuvan University) — Bhaktapur, Nepal
Bachelor of Electrical Engineering — *2023 – Present*

Gaindakot Namuna Higher Secondary Boarding School — Nawalparasi, Nepal
Higher Secondary Education (+2 Science, Computer Science) | GPA: 3.65 — *Graduated 2022*

Gaindakot Namuna Secondary Boarding School — Nawalparasi, Nepal
Secondary Education | GPA: 3.85 — *Graduated 2020*

Technical Skills

Electrical & Renewable Energy: Load Estimation, Power Electronics, Circuit Analysis, Instrumentation, Electrical Machine Design, Transformers.
Programming & Development: Python, C, JavaScript, Assembly (8085, 8086, 8051, 8055), React, HTML/CSS, Full Stack Development.
Cybersecurity: Web Vulnerability Assessment, Ethical Hacking, Secure System Design, Network Security Fundamentals.
Tools & Platforms: MATLAB, AutoCAD (Basic), PLECS, Proteus, Git, GitHub, Docker, Linux, MS Office, Jira, GitLab, LaTeX.

Projects & Practical Experience

Performed electrical and electronics laboratory experiments including rectifiers, transformers, temperature measurement, and machines with structured analysis and reporting.

Modeled and analyzed a section of the INPS Kaligandaki-Kathmandu Corridor using MATLAB, specifically focusing on transmission line losses and fault analysis.

Designed and maintained a personal technical website showcasing engineering and software projects.

Conducted ethical cybersecurity testing on self-developed web projects to identify vulnerabilities and improve system security.

Strengths

Interdisciplinary Approach: Ability to bridge the gap between heavy electrical engineering and modern software/cybersecurity requirements.

Analytical Problem Solving: Strong mathematical foundation combined with algorithmic thinking from software development.

Adaptability: Proven track record of self-teaching complex technical skills (React, Cybersecurity tools) alongside a demanding engineering curriculum.

Languages

Nepali: Native **English**: Professional Working Proficiency

Declaration

I hereby declare that the information provided above is true and correct to the best of my knowledge.

Shankar Aryal