

JEMS SHRESTHA

Computer Engineering Student | Aspiring Software / Full-Stack Developer

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SUMMARY

Computer engineering student (BEIT) with hands-on experience across full-stack web development, embedded systems, and data-driven applications. Comfortable working across the stack — from writing firmware for microcontrollers to building React/Node web apps and MySQL-backed systems. Quick learner, reliable teammate, and eager to contribute to a software or technology team as an intern.

EDUCATION

Bachelor of Engineering in Information Technology (BEIT)

2024 – Present

COSMOS College of Management and Technology, Sitapaila — Pokhara University

Coursework focus: software development, artificial intelligence & machine learning, digital systems, networking, and embedded systems.

Secondary Education (Class 9–12), Science / Computer Engineering

2020 – 2023

Focus

Shree Secondary School Dudhiawa, Rautahat, Nepal

TECHNICAL SKILLS

Languages	Python, C / C++, JavaScript
Web Development	HTML/CSS, React, Node.js
Embedded Systems	Arduino, Raspberry Pi, Circuit Design
Databases & Tools	MySQL, Git/GitHub, Linux

PROJECTS

Smart Home Automation

Python, Raspberry Pi, Arduino, MQTT

Built an IoT-based home automation system to control household appliances remotely via a web dashboard, designed to be affordable for Nepali households.

Campus Event Portal

React, Node.js, MySQL

Developed a full-stack web application for managing college events, notices, and announcements for Nepal Engineering College students.

Rautahat Info Dashboard

Python, Django, Data Visualization

Created a data visualization dashboard presenting demographic, agricultural, and infrastructure data for Rautahat district to support local government and researchers.

Line-Following Robot

Arduino, C++, Robotics

Designed and built an autonomous line-following robot using IR sensors with a custom PID control implementation as part of a college lab project.

ADDITIONAL

Interests: Web Development, Embedded Systems, AI/ML, Networking, Open Source

Languages: English (Professional), Nepali (Native)