

Sulav Gaire

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Research Interest: My research interests lie at the intersection of **Electronics, Machine Learning,** and **IoT.**

EDUCATION

TRIBHUVAN UNIVERSITY

Bachelor's Degree,
**ELECTRONICS, COMMUNICATION &
INFORMATION ENGINEERING**
Nov 2019 – April 2024 | Pokhara, Nepal

LINKS

Website:// [Sulav Gaire](#)
Github:// [SulavGaire](#)
LinkedIn:// [Sulav Gaire](#)
Medium:// [Sulav Gaire](#)

COURSEWORK

UNDERGRADUATE

Object Oriented Programming
Data structure and Algorithms
Computer Organization and Architecture
Operating Systems
Computer Network
Database Management Systems
Embedded System
Computer Graphics
Wireless Network
Artificial Intelligence
Data mining

SKILLS

PROGRAMMING

Proficient:

• Javascript • Python • Shell

Novice:

• C • C++ • \LaTeX

Familiar:

• MongoDB • MySQL

Software and library

• Kicad, LTspice

• Pandas, NumPy, Matplotlib, Tensorflow

• MERN Stack

• Figma

CERTIFICATIONS

MACHINE LEARNING SPECIALIZATION
by Andrew Ng

EXPERIENCE

ORION SPACE NEPAL | ELECTRONICS DESIGN INTERN

February 2022 - August 2022. | Kathmandu, Nepal

- Conducted research on LoRa-based sensor networks in the UHF band.
- Contributed to design & develop educational satellites like CanSat & CUBEK which are sold and used for training space enthusiasts globally.
- Developed a web application for real-time LoRa data monitoring.
- Worked on real-world IoT solutions projects like "Jal."

CODSE | SOFTWARE DEVELOPMENT INTERN

Jan 2024 - Feb 2024 | Pokhara, Nepal

- Developed user-facing features using Next.js and JavaScript.
- Secured multi-user web app with TypeScript, JWT, & REST API authentication.
- Participated in code reviews and used Git for version control.

PROJECTS

WEATHER PREDICTION | MINOR PROJECT | Github

Data collection using LoRa and Arduino, Xgboost algorithm for prediction using time series weather data, and Node.js as server to create dashboard

E-NIRWACHAN | MAJOR PROJECT | Github

Electronic voting system using two factor biometric authentication - A case study in Nepal build using React, Django, MongoDB, face & fingerprint recognition

SAJILO AMBULANCE | GRITFEAT AI HACKATHON | Github

Uber-like app for ambulance services with triage prediction features and hospital recommendations

CANSAT DASHBOARD | ORION SPACE NEPAL | Github

Created educational satellite ground station dashboard using Node.js

AWARDS

2024 **National** 2nd runner-up at TECHENERGY Hackathon, by Hitachi Energy
2024 **1st/50** Project Expo | NebiFest 2024 (Project: Delta Arm)
2021 **Regional** 2nd at Robo-soccer competition | CAN-INFOTECH 2021

EXTRA CURRICULAR

2022 - 2023 Senior member Robotics Club, IOE, WRC
2023 Participant Gritfeat AI hackfest
2023 Art Competition winner Happy club WRC art competition

REFERENCE

Jiten Thapa ORION SPACE NEPAL jitenthapa56@gmail.com