




SUWARNA PYAKUREL

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Summary

Undergraduate engineering student with a solid background in technology and project coordination. Experienced in managing documentation and organizing events through roles in technical societies and outreach programs. Strategic Public Relations and Branding Manager. Eager to apply with a strong organizational and support skills to assist in planning, execution, and cross-functional collaboration.

Education

Tribhuvan University, Institute of Engineering, Purwanchal Campus, Dharan **Sep 2023 - Present**
Bachelor of Engineering, Electronics, Communication, and Information Engineering

- **Achievements:** Organized various Historic Events like CS50 AI Nepal , a part of IOAA-Jr. 2024 and so on.

SOS Hermann Gmeiner Secondary School **Mar 2020 - Jul 2022**
High School *Bhaktapur*

- **GPA:** 3.75

- **Achievements:** Head-boy (batch:2078 BS), Provisional Discovery of a main belt asteroid "2020 WX9", Actively participated in STEM and various other voluntary activities

Experience

CS50 AI Nepal, EXCESS **Oct 2024 - Present**
PR and Outreach Lead

- Promoted the program by building partnerships and enhancing its visibility, resulting in increased community engagement
- Managed public relations and coordinated outreach efforts to engage communities.
- Fostered collaborations to expand CS50's reach and impact.
- Planned events, strategized campaigns, and ensured effective communication with stakeholders to drive participation and awareness.

Nepal Astronomical Society **Oct 2023 - Present**
Undergraduate Student Member

Passionate about space and education, I had the honor of serving as a Country Guide and Tech Lead for the historic first IOAA-Jr. 2024 in Nepal.

- Developed a QR-based system for participant tracking and event management.
- Organized global events like NASA Space Apps Challenge.
- Worked with local and provincial governments of Biratnagar and Koshi province respectively to advance practical and scientific education.
- Engaged in astronomical outreach, mentoring, and collaboration to drive impactful change.

Astronomy and Space Science Study Research Committee **Jun 2023 - Present**
Member *Biratnagar*

- Collaborated with local government in Biratnagar to promote astronomy and space science through outreach, technical workshops, events etc.
- Enhanced technical education by developing and implementing workshops using Python programming and Linux skills, resulting in improved learning outcomes for participants
- Contributed to shaping effective plans and policies for the region.

Municipal Child Club Network **Jul 2019 - Mar 2021**
Secretary *Biratnagar*

As the Secretariat, I coordinated numerous initiatives aimed at children engagement and development.

- Coordinated numerous initiatives aimed at children engagement and development.
- Sharpened organizational and communication skills.
- Drove impactful community programs.
- Supported and guided the community as an Advisor of the same Club.

Projects

IoT Based Smart Agriculture **Apr 2023 - May 2023**
Robotics Association Nepal *Kathmandu*

- Smart Farming System tailored to cater problems of diverse landscape of Nepal . Automating and Structure a new concept of Agriculture.

Library Management System **Mar 2024 - Mar 2024**
IOE Purwanchal Campus, Dharan *Dharan, Nepal*

- Object-oriented C++ application for efficient library resource management and book tracking. Done as a part of academics under supervision of Er. Tantra Nath Jha

Bank Management System

Jan 2024 - Jan 2024

IOE Purwanchal Campus , Dharan

Dharan , Nepal

- A comprehensive C-based banking system with account management, transactions, and secure data handling. Done as a part of academics under supervision of Er. Pravin Sangraula

Travelling Salesman Problem

Feb 2025 - Feb 2025

IOE Purwanchal Campus, Dharan

Dharan, Nepal

- Interactive visualization of TSP solutions using various algorithms and path optimization techniques. Using Python (Pygame for visualization).

Study Tracker

Feb 2025 - Feb 2025

A Django-based application to help students track their study progress across different subjects and units. Dharan, Nepal

- Subject management with exam date tracking
- Unit-wise progress tracking
- Visual progress representation using charts
- File upload support for syllabus
- User authentication

Personalized Budget Tracker

Mar 2025 - Mar 2025

Dharan , Nepal

- A sleek, user-friendly desktop application to manage your finances with style and precision.
- Python-based tool designed to help you track income, expenses, and spending patterns effortlessly. Built with a modern GUI, this application offers intuitive transaction management, data visualization, and export options, making it perfect for personal finance enthusiasts

Love Note Generator

Mar 2025 - Mar 2025

Dharan, Nepal

- Love Note Randomizer: Spicy Edition—a flirty, fun, and slightly cheeky Python app designed to add some spark to your relationship! Spin for romantic, playful, or downright steamy notes, take on daring challenges, and watch your Love Meter climb.

Skills

- Python Programming, Public Speaking, Git & Github, Critical Analysis, C & C++, Web Scraping, Frontend, Robotics & IoT, Documentation, Linux, Event Management, Public Relations, Technical Documentation, Strategic Branding and PR, DSA

Achievements

- **Yantra 9.0:** Winners of Yantra 9.0 an international Robotics Competition where we , Team ERC won two titles : Yantra Swarmanoid and Yantra Business Cup Expo where I lead Team Business Cup Expo.
- **Best Idea : X-hack 2.0:** Won the Best Idea title at Largest Hardware Hackathon of Nepal.
- **Discovery of a Main Belt Asteroid:** A certified asteroid hunter : Provisional Certificate of hunting a main belt asteroid "2020wx9"

Language

- Nepali (Native Speaker), English (Highly Proficient), Hindi (Highly Proficient)