Prabesh Shrestha

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Experience

Open Learning Exchange Nepal
Robotics Fellow | 05/2024 - Present
- Government funded Robotics Research & Development using ARTEC Studuino
- Providing STEM education at Government Schools At Lalitpur Metropolitan City

Tutormandu Nepal
Chief Technology Officer | 10/2023 - Present
- Coded software systems to manage Tutors and Students contracts
- Help grow the Social Media reach
- Tutored High School students STEM subjects.

Infinita | Kathmandu
Founder | 07/2023 - Present
- Organized NASA Space Apps Challenge 2023 at Bhaktapur, with over 70+ participants, and selected 1 team to participate globally
- Taught selected student from all around Nepal, Robotics and Programming

Ask Mattrab | Kathmandu
Treasurer and Admin of Computer Science | 01/2021 - Present
- Managed the finance of the organization
- Categorized budget for events
- Generated year draft
- Created computer science notes for grade 11 and 12
- reviewed notes and forum questions of Computer Science section

Young Scientist's Community | Kathmandu
Founder and Robotics Coordinator | 08/2020 - Present
- Founded an organization for doing collaborative research and projects. Shared knowledge and experience related to Robotics and Programming.
- Taught robotics masterclass, basics of robotics, circuit designing, microcontroller, programming, and Robot Operating System (ROS) to over 30 students
- Went to remote places of Nepal, to teach high school student about Robotics and programming, helped them found a STEM club.
- Organized Keynote Speeches on Artificial intelligence by bringing industry professionals graduated from MIT

Research Centre for Applied Science and Technology (RECAST), Tribhuvan University | Kathmandu
Ambassador | 07/2023 - 10/2023
- Researched on Cluster robotics
- Analysed previous articles
- Conducted experiments and benchmarks for Research on rp2040

Students for the Exploration and Development of Space at St. Xavier's College (SEDS SXC) | Kathmandu
Executive and WebMaster | 08/2022 - 08/2023
- Designed and Maintained club's Website.
- Organized space themed events and competition.
- Managed sponsors to fund the events.
- Organized "Yuri's Night" a national level space themed fest with over 200 participants

Nepal Computer Science Alliance, NECSA | Kathmandu
Affiliated member | 02/2020 - 01/2022
- Learn about hackathons
- deepend my knowledge in programming
- learned competitive programming

Robotics Club - Triyog High School | Kathmandu
President/Vice President | 05/2019 - 05/2021

- Conducted Inter-class STEM Competition
- Organized in-club Project discussion session
- Built projects like drone, self-driving car, walkie-talkie and more.
- Participated In Inter School Robotics and STEM Competition and won several of them.

Projects

1. **Agrisense** (fully automated agricultural automation kit), made with Arduino, esp32, and other circuits.)
2. **Traverse** (Trip planning app, where you can find itineraries of places that you can visit written in react, with AI features)
3. **8 Bit Hashira** (discord bot which has multiple features, like moderation, memes generator, music player, and other commands)
4. **CryptoPass** (Password Management System implimented with Rust, Python)
5. **OpenBeats** (Open source music player and Downloader)
6. **Rusty** (Implementation of a light weight back end web application framework for building RESTful APIs and Simple web app in Rust)
7. **ISS 3D** (Online Application where you can see 3D view of the earth with the live position of International Space Station)
8. **Tanpura** (An web app that can be used to practice Hindustani classical music.
9. **Color Detector** (A contraption made with LEDs and photoreflectors which is able to detect the color of an object)

Competition Awards

- First Global Challenge 2020, Ranked 38th, Prize Winner (Olympics-style robotics competition organized by the International First Committee Association)
- Yantra 8.0, 1st Runner up(National Robotics Competition)
- 127th in World Programming Championship, IIT Mumbai 2021
- 27th inter college SET STEM Exhibition, 2nd Runner up
- Young Scientist's Summit 2021, 2nd runner up
- Best Aesthetics and Movement, National Bhavishya STEAM Challenge

Hackathons

- KU hackfest 2021
- KU hackfest 2023
- NASA Space App Challenge 2020 (Local People's Choice Award)
- NASA Space App Challenge 2022 (Global Nominee and Local Winner)
- Clash Of Code by TechFest - KMC (1st runner up)

Certifications

- Python for Data Science, AI and Development - IBM
- A Crash Course in Data Science - The Johns Hopkins University
- Machine Learning with Python (with Honors) - IBM
- Foundations of Git - GitKraken

Skills

Coding, Embedded Software Development, data structures and algorithms, Laboratory Techniques, Circuit Design, Robotics, Svelte, Backend Development, Python Automation, IoT (Internet of Things), Research & Development, Analysis Skills, Event Planning, System Design

Education

St. Xavier's College | Kathmandu
GCE A level | 08/2023

- Graduate with subjects: Computer Science, Further Mathematics, Physics, Mathematics, Chemistry

- Learnt Laboratory skills including analysis and planning.
- Learning computer skills.

Triyog High School | Kathmandu
Grade 10 | 05/2021

- Graduated with a GPA of 3.75
- Represented School in multiple Robotics Competitions
- Organized events from Clubs

Languages

English, Nepali, Hindi

Links:

Website: prabesh-shrestha.com.np

Github: github.com/prabesh-shrestha

LinkedIn: linkedin.com/in/prabesh-shrestha