Pradip Dhungana

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Education

Nepal College of Information Technology	**March 2021 – Present**
Bachelor's of Engineering in Software Engineering - Final Year	*Balkumari, Lalitpur, Nepal*

Experience

SERA DIGITAL HUB — **December 2024 – March 2025**
Backend Developer — *Kathmandu, Nepal*
- Developed and maintained websites such as sera.com.np, sera.edu.np & jobs.sera.com.np using Astro, PHP, MySQL, and other technologies.
- Collaborated with a team to design and implement scalable backend solutions.
- Gained practical experience in software development, which enhances my ability to teach computer science with real-world applications.

Gyansagar Academy — **Nov. 2020 – July 2021**
Secondary Level Teacher — *Hemja, Pokhara, Nepal*
- Served as the IT Head of the school, managing and administering the school's website and application to streamline communication and administrative processes.
- Taught subjects including Mathematics, Computer Science, and Occupation Studies, engaging students with interactive lessons and practical applications.
- Implemented and maintained digital tools to enhance learning experiences and facilitate efficient school operations.

TEDxNCIT — **Balkumari, Lalitpur**
Co-Organizer — *03/2024 – 30/12/2024*
- Organized the TEDx event at Nepal College of Information Technology (NCIT), handling various aspects of event planning and execution.
- Compliance with TEDx licensing and regulations.
- Contributes to website development, speaker selection, curation, and coaching.
- Managed overall event logistics and day-of coordination to ensure a successful event.

TEDxKamal Pokhari — **Kamalpokhari**
Head of Marketing and Communication — *10/2023 – 03/2024*
- Led the marketing and communication strategies for TEDxKamal Pokhari, managing the overall team and overseeing sponsorship and partnership efforts.
- Coordinated promotional activities and managed communication channels to enhance event visibility and engagement.
- Supervised event day management and post-production activities to ensure a seamless execution.

Projects

PulsePath – PHP, Python, MySQL, OSM, JavaScript
- Developed a web app to optimize emergency response operations for ambulance services.
- Implemented secure login for authorized access and designed a user-friendly dashboard for real-time navigation.
- Integrated GPS for dynamic route adjustments and enabled emergency alerts to communicate with traffic control and hospitals.

FoodFind – React, TypeScript, Vite, SQLite, Django REST Framework
- Developed a web app for discovering restaurants in Kathmandu Valley with Google Auth for secure login.
- Implemented features for user reviews, restaurant search, and favorites, along with a map for nearby options.
- Used SQLite for the backend and Django REST Framework for creating RESTful APIs to support application functionality.

TEDxNCIT – Astro, TypeScript, TailwindCSS, PrelineUI
- Developed a responsive website for TEDxNCIT to showcase events and speakers.
- Utilized Astro for optimized static site generation and integrated Tailwind CSS for responsive design.
- Implemented GSAP for animations and Markdown for easy content management.
- Ensured high SEO standards and mobile responsiveness.

Movie Alchemy – Python, StreamLit, Jupyter Notebook
- Developed a Movie Recommendation System that provides personalized movie suggestions based on the TMDB dataset.
- Implemented recommendation logic using Python and created an interactive frontend with Streamlit.
- Utilized Jupyter Notebook for data analysis, preprocessing, and feature engineering, incorporating data from Kaggle.

Technical Skills

Languages: Python, Java (Intermediate, 1+ years), JavaScript, TypeScript, PHP, C#, C, C++
Libraries/ Frameworks: Astro, Django, React, JQuery, Tailwind CSS, Pandas, Numpy, Matplotlib, Scikit-Learn, Tensorflow, GSAP
Tools: Git, Postman, Vite, Preline UI
Databases: SQL, MySQL, PostgreSQL, NoSQL, MongoDB
Cloud Services: AWS (EC2, Lambda, S3)
Others: Linux, Bash, Vim, LaTeX

Key Achievements

NCIT Hackfest
- Second Runner up in a 3-day hackathon organized by the Nepal Open Source Klub (NOSK) at NCIT.

Pokhara University Full Scholarship Scholar
- Awarded a full scholarship by Pokhara University for pursuing a degree in Software Engineering.