

Shreejal Dhungana

 Portfolio  LinkedIn  Github
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ABOUT

A Software Developer with 2 years of experience in building backend applications. Experienced in developing REST APIs, microservices, and RAG-based applications. Always eager to take on new challenges and contribute to innovative projects.

EXPERIENCE

Associate Software Engineer

AMNIL Technologies Pvt. Ltd.

September 2023 - Present

Manbhawan, Kathmandu, Nepal

- Played a significant role in the development of RAG-based Generative AI chatbot using OpenAI, Langchain, ChromaDB, WeaviateDB, enabling real-time streaming using Server-Sent Events(SSE) for enhanced user experience.
- Built file explorer UI and APIs for handling data ingestion from various sources such as Remote FTP Servers, AWS S3 Buckets, ensuring seamless integration with the chatbot system.
- Collaborated with cross-functional teams in the development and maintenance of in-house chatbot application, focusing on enhancing user experience and system performance.
- Implemented BullMQ for managing ingestion, crawl jobs and scheduling tasks, ensuring efficient processing and management of data within the chatbot system.
- Integrated AI microservices with the chatbot application, enabling advanced AI capabilities and improving overall functionality.
- Contributed to handling scaling of the application by implementing efficient data handling and use of Redis Pub/Sub for real-time data synchronization across clusters.
- Worked on enhancing the messaging platform for multi-channel support and enhance the content-type support for different social media platforms.

MERN Stack Developer Intern

Mervix Technologies Pvt. Ltd.

March 2023 - June 2023

Budhanilkantha, Kathmandu, Nepal

- Worked on resolving bugs and implementing new features in Urban Health Center Data Management System, a web application for managing health data of urban health centers in Nepal.
- Worked on Multimedia Management System for managing multimedia content, including images and videos, for use in portfolio websites. Resolved bugs and ensured smooth functionality of the application.

EDUCATION

Tribhuvan University

Bachelor of Science in Computer Science and Information Technology (B.Sc. CSIT)

kathmandu, Nepal

2020 - 2025

PROJECTS

Tumor Insight: As part of a Bachelor's project, developed Tumor Insight to detect and classify tumors in brain MRI images using deep learning techniques. The project utilized VGG16 and ResNet50 models for image classification, with a backend built on Flask and PostgreSQL, and a frontend developed using React.

PROGRAMMING SKILLS

Languages: JavaScript , TypeScript

Technologies: NodeJS , LoopBack , NestJS , Express , React , PostgreSQL , MongoDB , Redis , Docker , BullMQ , Microservices , Git