Umesh Rajbanshi

Electronics and Communication Engineer

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Dedicated Developer with a solid foundation in backend architecture and a growing focus on AWS Cloud Operations. I pride myself on a disciplined approach to debugging and error handling, ensuring project stability through effective version control and CI/CD workflows. Currently expanding my technical toolkit with Docker and containerization, I am committed to continuous learning and maintaining high standards in technical project management. I am eager to apply my problem-solving mindset and foundational backend knowledge to the Mandap Fellowship.

EDUCATION

Bachelor in Electronics and Communication Engineering   Kathmandu

Advanced College of Engineering and Management   Jan, 2022 - Present

+2 Science   Biratnagar

Adarsha Secondary School   May, 2020 - May, 2022

PROJECTS

Blind Vision App

- Integrated YOLO and MiDAS models for real-time object detection and depth estimation; optimized the integration logic for high efficiency and low latency.
- Conducted technical feasibility research and guided the system's architecture, ensuring a stable bridge between deep learning models and voice-guided navigation.

Open Source & Personal Research (GitHub)

- Actively maintaining a portfolio of backend projects including Django-based applications and E-commerce architectures, focusing on clean code and collaborative version control (Git).

Trading Dashboard (Current)

- Collaborating on a real-time trading dashboard using Docker for containerization and setting up CI/CD pipelines via GitHub Actions.
- Developed the UI using Lightweight Charts and established a stable backend foundation focused on data accuracy and system reliability.

TRAINING/CERTIFICATIONS

AWS Cloud Foundations ACEM | In collaboration with Prixa Academy (3 Weeks)   2025

Prixa Academy

- Performed hands-on configuration of core services including EC2, S3, IAM, and VPC, focusing on secure infrastructure setup and resource management.
- Gained practical experience in monitoring system health and managing global cloud resources within the AWS Management Console.

Django (15 days)   2025

ACEM

- Strong foundation in MVT architecture to build scalable web applications, focusing on REST API development and secure database management.
- Gained hands-on experience in implementing user authentication, CRUD operations, and integrating backend logic with frontend interfaces.

SKILLS

Python, PyTorch, Django, REST APIs, Javascript, Git/Github, Docker, CI/CD, AWS, Problem Solving and Debugging, Architectecture: CNN, RNN, LSTM (Deep), GRU, Seq2Seq, Transformers, and Attention

LANGUAGE

English, Nepali