

Gaurav Neupane

Euless, TX | +16412330934 | ngaurav456@gmail.com | [LinkedIn](#) | [GitHub](#)

Summary

Experienced Python Developer with over 4 years having a deep understanding of Backend, Cloud Computing and Artificial Intelligence. Hands-on experience with AWS and tools such as Docker, and PostgreSQL. Demonstrated ability to optimize performance and deliver high-quality software using agile methodologies.

Experience

Yarsa Labs | Pokhara, Nepal

Back-End Engineer

2022- 2023

- Developed a B2B E-commerce application system using NestJS, TypeScript, and AWS.
- Utilized PostgreSQL, Minio and Keycloak for building backend systems for B2B and gaming applications.
- Worked on a backend system supporting 100M+ downloads for real-time gameplay features.
- Optimized the backend for the games using MongoDB aggregation pipelines, and Redis implementation.
- Optimized API to search products and vendors by 15% using Apache Solr.
- Developed a background removal AI system using Python and Computer Vision.
- Participated in requirements discussion, sprint planning, development, testing, code reviews and retrospectives.

Bottle Technology | Kathmandu, Nepal

Back-End Engineer

2021 - 2022

- Collaborated with an 8-member team to develop a Fintech application for a trading company.
- Build 100+ APIs using Fast API, Pandas, AWS lambda, EC2, S3, API Gateway, Cognito, CloudFront, CloudWatch, and Docker.
- Worked on scraping the data from various sites using Beautiful soup, and Selenium.
- Deployed handwritten signature extraction and user detail extraction systems using Textract, Tensorflow, OpenCV and Docker.
- Deployed ML models on Docker, and EC2 using FastAPI and Python.
- Participated in requirements discussion, sprint planning, development, testing, code reviews and retrospectives.

Inspiring Lab | Kathmandu, Nepal

Software Engineer(AI)

2020 - 2021

- Developed AI-based applications such as RTVTR (vehicle surveillance system) and Pollen Sense AI.
- Improved accuracy of the RTVTR system by 5 % using ONNX and YOLO.
- Enhanced Pollen Sense accuracy by 2% with transfer learning.
- Deployed Computer vision-based project on Nvidia Jetson TX2.
- Build APIs for the RTVTR using FastAPI, Docker, AWS, and Websocket.
- Developed a data ingestion pipeline for training recently captured data.

Yarsa Labs | Pokhara, Nepal

Artificial Intelligence Intern

2017- 2018

- Developed ML-Agents for Unity-based games.
- Researched AI applications in gaming industries.

Skills

Languages: Python, TypeScript

Databases: PostgreSQL(SQL), MongoDB(NoSQL), Redis

AI: Computer Vision, Tensorflow, Scikit-learn, Numpy, Pandas, Matplotlib

Tools: AWS, Git, Docker, Kubernetes, Selenium, Beautiful soup Keycloak, Minio, CI/CD

Architecture: Rest API, Neural Networks

Back End: FastAPI, NestJS

Search Engines: Apache Solr

Education

Master of Science in Computer Science

Maharishi International University, Fairfield, Iowa

Bachelor of Science in Computer Science and Information Technology

Tribhuvan University, Pokhara, Nepal

Certifications

Neural Networks and Deep Learning

Coursera

Finetuning Large Language Models!

DeepLearning.AI

Generative AI for Everyone

DeepLearning.AI

LangChain for LLM Application Development!

DeepLearning.AI

Machine Learning

Coursera

Functions, Tools and Agents with LangChain!

DeepLearning.AI

Knowledge Graphs for RAG!

DeepLearning.AI