

SUYASH SHRESTHA

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Detail-oriented and adaptable, with a problem-solving mindset and passion for innovative data-driven solutions. Experienced in Web Development, Machine Learning and AI, with hands-on expertise. A fast learner, committed to continuous learning and collaboration, eager to contribute to cutting-edge projects driving business growth.

EXPERIENCE

Backend Software Developer

09/2024 - Present

Workharu

- Designed and implemented scalable web scraping pipelines to collect and process data from multiple online sources, ensuring high-quality input for downstream systems.
- Improved RAG system by enhancing data parsing and integrating new scraped data for better accuracy.
- Developed and maintained backend APIs and services using Python and FastAPI, supporting web applications and data workflows.
- Conducted data analysis and preprocessing to improve content relevance and more.
- Collaborated with cross-functional teams and managed cloud resources using AWS to ensure reliable and maintainable deployments.

ML/AI Engineer Intern

01/2025 - 04/2025

Inspiring Lab

- Conducted in-depth research on RAG pipeline components, focusing on parsing and chunking multilingual i.e. English and Nepali documents.
- Optimized text preprocessing, embedding generation and vector search with Elasticsearch to enhance retrieval efficiency and scalability.
- Designed and developed a fully functional RAG-based chatbot project with advanced retrieval, processing and response generation using LLMs.
- Built an AI-powered data analysis agent system for automated data interpretation, visualization and report generation system project.

Full Stack Software Engineer

02/2023 - 03/2024

Yakana IT Solutions

- Took primary ownership of building core features in web applications using latest technology, ensuring high performance and maintainable implementations.
- Collaborated in Agile teams to design, develop and test complex software systems, meeting business goals and client needs.
- Designed and structured backend database schemas and query logic to support evolving application requirements.
- Participated in architectural discussions and contributed to improving codebase quality.

Software Engineer Intern

05/2022 - 11/2022

Kiko Solutions

- Built internal and client-facing features using JavaScript, translating project requirements into functional components and APIs.
- Designed and managed relational database schemas using SQL, contributing to the back-end logic and data flow of applications.
- Collaborated with mentors and teammates in an Agile environment to deliver working features and resolve issues quickly.
- Took initiative in learning full-stack development tools and workflows, growing from zero experience to actively contributing to real-world projects.
- Participated in code reviews and debugging sessions, improving overall code quality and problem-solving skills.
- Authored clear documentation for code and processes to support future maintenance.

EDUCATION

Prime College | Bachelor of Science in Computer Science and Information Technology, 2021 - 2025
(Affiliated to Tribhuvan University, Nepal)

- *General Member*, Prime IT Club

PROJECTS

- Dwello: Intelligent Property Pricing and Listing Platform
- SajhaKhabar: Machine Learning-Enhanced Nepali News Portal
- Football Analysis System
- AI/NLP TV Series Analysis System
- Multimodal Sentiment Analysis System

CERTIFICATIONS

- IBM Full Stack Software Developer Specialization
- AWS Academy Graduate - AWS Academy Cloud Foundations
- Machine Learning Specialization

SKILLS

Python | Machine Learning | RAG | Docker | JavaScript | TypeScript | SQL | NoSQL | Vector Databases | NodeJS | ReactJS | AWS