

Sujan Lamichhane

Full Stack Engineer

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EDUCATION

•Bachelors in Computer Engineering

2019-24

Thapathali Campus (Institute of Engineering), Kathmandu

CGPA: 7.05

EXPERIENCE

•Vertex Special Technology

April 2024 - Present

Full Stack Engineer

- Created RESTful APIs with **Express.js** for seamless data access and integration across internal systems.
- Worked on creating a low code testing platform using electron using Angular and Nodejs
- Worked on HRM and Accounting software solutions handling huge records and ensuring efficient data retrieval and consistency.
- Collaborated with cross-functional teams to implement data validation, version control, and deployment automation.

PERSONAL PROJECTS

•Aspect-Based Sentiment Analysis in Nepali Language

NLP-based project for analyzing sentiment toward specific aspects in Nepali text

- Developed a transformer-based model (**BERT**) for multi-aspect sentiment classification in Nepali language data.
- Built a **Django REST API** and front-end interface for real-time inference and visualization of sentiment predictions.
- Preprocessed large text datasets using Python (Pandas, NumPy) and created efficient data pipelines for training.

•Algorithm Visualizer using Next.js

Developed an interactive algorithm visualizer using Next.js for educational purposes.

- Created a dynamic, responsive user interface using **Next.js** to visualize various algorithms in real-time.
- Implemented algorithm animations for sorting, searching, and graph-related algorithms
- Optimized the performance of algorithm visualizations, ensuring smooth rendering with large datasets and complex algorithms.

•Full stack Blog Application

Created a blog application with nextjs frontend and fastapi backend

- Incorporated editor js for notion like drafting for blogs
- Developed api using Fast API
- Created dynamic responsive interface with Nextjs

TECHNICAL SKILLS AND INTERESTS

Languages: Python, SQL, JavaScript, HTML, CSS

Libraries & Frameworks : FastApi , Nodejs, Angular, Nextjs

Tools: Git, Docker, Linux, Electron

Databases: PostgreSQL, MySQL

Relevant Coursework: Data Structures & Algorithms, Database Management Systems, Software Engineering, Data Analytics, Operating Systems

Areas of Interest: Data Engineering, AI, Backend Systems, Data Pipelines, ETL, Cloud Computing

Soft Skills: Problem Solving, Analytical Thinking, Team Collaboration, Adaptability

COURSES AND CERTIFICATION

•Postgres SQL for Everybody

- Mastered relational database concepts, joins, subqueries, and advanced SQL operations for analytics.
- Applied normalization and indexing for efficient query performance.

•Google AI Essentials

- Used AI tools for data-driven decision-making and generative content creation.
- Practiced prompt engineering and AI-assisted data exploration.

•IBM DevOps and Software Engineering Professional Certificate

- Gained practical understanding of DevOps culture, Agile practices, and CI/CD pipelines for data workflows.