

MANISH CHHETRI

Engineer - Full Stack Developer

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PROFILE

Skilled in end to end fullstack application with Node.js , React.js, building secure, scalable systems using Docker, and cloud platforms. Passionate about AI and exploring its integration into cloud-native applications.

SKILLS AND COMPETENCIES

Languages:	Python, C/C++, JavaScript (Node.js), Arduino
Machine Learning:	Transformers, LLMs, CNNs, RNNs
Web Development:	Node.js, TypeScript, Express, NestJS, React.js, Next.js
Database:	PostgreSQL, MySQL, MongoDB
DevOps & Cloud:	Docker, Kubernetes, CI/CD (GitHub Actions), AWS, GCP.
Strengths:	Communication, Team Leadership, Time Management, Project Coordination

EXPERIENCE

Maitri Services Software Engineer	<i>Lalitpur, Kathmandu Nepal</i> Oct. 2025 – Present
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- Designing backend architecture and database schemas with a focus on clean code structure, modularization, and long-term maintainability.
- Building dynamic, schema-driven data systems using JSON Schema, enabling frontend UI and workflow rendering from backend configurations.
- Developing agents and sub-agents for batch-based processing of large documents (10–15+ pages) and structured content extraction.
- Actively collaborating with teams and senior engineers on system design discussions, performance optimization, and architectural trade-off analysis.

Swift Technology Full Stack Software Engineer	<i>Lalitpur, Kathmandu Nepal</i> Nov. 2023 – Aug. 2025
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- Managed server configurations and resolved production issues by analyzing logs, reducing downtime by ~30%.
- Delivered 5+ international client projects with high-quality results and consistently positive feedback.
- Added key features to existing systems, including Payment Systems, Admin Panel, CMS, CRM, WebRTC, and role-based access control.
- Containerized applications, optimized Nginx, managed Cloudflare DNS/domains, and deployed RAG-based transformer models for a medical insurance system in a cloud-native setup.

EnterLeaf (Freelancing)

Microservice Backend Developer

Kuleshwor, Kathmandu Nepal

Jul. 2023 - Nov. 2023

- Designed and developed different services using NestJS, leveraging NATS for message brokering, enabling a robust event-driven architecture.
- Integrated an API Gateway to handle and route requests efficiently from both mobile and web browser clients, ensuring seamless communication across services
- Implemented a CI/CD pipeline using GitHub Actions, streamlining the deployment process and ensuring continuous integration and delivery for rapid and reliable updates.

UpStartPrep (Freelancing)

Backend Developer

Knoxville, Tennessee, United States

Dec. 2022 - Jun. 2023

- Creating and improving application programming interfaces (APIs), architecture, and servers, and databases (SQL) for E-Learning Platforms.
- Implementation of Payment System (Stripe) and Used Cloud Services like AWS.
- Implementation of microservices-based architecture, incorporating containerization and CI/CD pipeline for efficient development.

EDUCATION

Western Region Campus, Institute of Engineering, TU, Nepal

2019 – 2024

B.E. in Electronics, Communication and Information Engineering

Final Grade: First Division

Percentage: 72.55%

Thesis Title:

Image Captioning in Nepali Language

Global Collegiate School, Nepal

Science, National Examination Board (NEB)

2017–2019

Final Grade: First Division

CGPA: 3.45/4.0

PUBLICATIONS

Nepali Image Captioning: Generating Coherent Paragraph-Length Descriptions Using Transformer

Journal of Soft Computing Paradigm, 6(1), 70-84

CO-AUTHOR

2024

- Subedi, N., Paudel, N., Chhetri, M., Acharya, S., & Lamichhane, N.
- DOI: [10.36548/jscp.2024.1.006](https://doi.org/10.36548/jscp.2024.1.006)

Drowsiness and Crash Detection Mobile Application for Vehicle's Safety

Journal of IoT in Social, Mobile, Analytics, and Cloud, 6(1), 54-66

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- Subedi, N., Paudel, N., Chhetri, M., Acharya, S., & Lamichhane, N.
- DOI: [10.36548/jismac.2024.1.005](https://doi.org/10.36548/jismac.2024.1.005)

AWARDS AND HONOURS

Robo Soccer Competition

First Position

National Innovation Center Nepal, Pokhara

Jan. 2019

- Designed and developed an autonomous robot in a team of four that could play soccer, kick the ball, and defend the goal.

Battle for Speed

Second Position

VECTOR – Second National Technical Festival, WRC

Jan. 2019

- Developed an automatic line-following robot using Arduino programming, focusing on speed and precision.

Datathon Competition

First Position

I-CES, IOE Western Region Campus

Jan. 2019

- Collaborated in a team of two to preprocess provided datasets and train a machine learning model achieving 91% accuracy, followed by a successful presentation of results.