

# MANISH CHHETRI

Engineer - Full Stack Developer

*Kathmandu 29, Anamnagar, Bagmati*

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Github: [chhetri123](#) LinkedIn: [chhetri123](#)

## PROFILE

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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

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

## EXPERIENCE

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### Maitri Services

*Software Engineer*

*Lalitpur, Kathmandu Nepal*

*Oct. 2025 – Present*

- 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.

### Swivt Technology

*Full Stack Software Engineer*

*Lalitpur, Kathmandu Nepal*

*Nov. 2023 – Aug. 2025*

- 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.

- 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.

- 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**

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**Western Region Campus, Institute of Engineering, TU, Nepal**  
B.E. in Electronics, Communication and Information Engineering  
Final Grade: First Division

*2019 – 2024*

*Percentage: 72.55%*

**Thesis Title:**

Image Captioning in Nepali Language

**Global Collegiate School, Nepal**  
Science, National Examination Board (NEB)  
Final Grade: First Division

*2017–2019*

*CGPA: 3.45/4.0*

## **PUBLICATIONS**

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

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

*Journal of IoT in Social, Mobile, Analytics, and Cloud, 6(1), 54-66*  
*2024*

- 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

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### **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.