

# MANISH CHHETRI

Engineer - Full Stack Developer

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## 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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<b>Maitri Services</b> 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.

<b>Swift Technology</b> Full Stack Software Engineer	<i>Lalitpur, Kathmandu Nepal</i> Nov. 2023 – Aug. 2025
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- Managing server configurations, troubleshooting issues, and analyzing logs to ensure smooth system operations.
- Handling international client projects with high-quality deliverables and consistently positive feedback.
- Enhancing existing projects by implementing features such as Payment Systems, Admin Panels, CMS, CRM, WebRTC, and role-based access control.
- Containerizing applications, configuring and optimizing Nginx, and managing DNS and domains via Cloudflare.
- Managing and deploying RAG-based transformer models for a medical insurance system with end-to-end pipelines and cloud-native production deployment.

## **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**

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### **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**

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

*Journal of Soft Computing Paradigm, 6(1), 70-84  
2024*

#### **CO-AUTHOR**

- 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  
2024*

#### **CO-AUTHOR**

- 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.