

Lalit Mahato

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Professional Summary

An innovative and results-driven software developer with 4+ years of experience in designing, developing, and deploying high-quality software solutions. Proficient in various programming languages and technologies, with a keen interest in staying updated with the latest advancements in the field. Adept at collaborating with cross-functional teams to deliver projects on time and within budget. Known for exceptional problem-solving skills and a passion for creating efficient, scalable, and maintainable code. Strong communicator with a proven track record of translating complex technical concepts into user-friendly solutions.

Technical Skills

- **Languages:** Python, JavaScript, Java, C, SQL
- **Frameworks/Libraries:** Django, Flask, FastAPI, Celery
- **Frontend Technology:** HTML, CSS
- **Databases:** PostgreSQL, MySQL, MongoDB, Redis, RabbitMQ
- **Tools & Platforms:** Git, GitHub Action, Docker, Selenium, VPS, AWS, GCP, Linux, Nginx, Apache2, Pandas, NumPy, Matplotlib, Scikit Learn, Keras, Pytorch, TensorFlow, Yolo, OpenCV
- **Others:** Rest APIs, Microservices, Agile/Scrum, Web Scraping, LLM Integration

Work Experience

Django Instructor

NextStep InfoTech Training Center (Swastik College) | August 2025 – Present | Part-time

- Design and update Django curriculum and lesson plans
- Deliver lectures, workshops, and coding sessions
- Teach Django fundamentals and advanced concepts
- Guide students in building real-world projects
- Provide mentorship and resolve student queries
- Assess and evaluate student performance
- Introduce industry best practices and deployment methods.
- Stay updated with latest Django and web technologies

Software Engineer

Matrix Softech Pvt. Ltd. | February 2022 – Present | Full-time

- Developed and maintained scalable web applications using Django and Flask, ensuring high performance and reliability.
- Designed and optimized RESTful APIs using Django Rest Framework (DRF) for seamless communication between frontend and backend services.
- Implemented database solutions with PostgreSQL, MySQL, and MongoDB, including query optimization and schema design for efficiency.
- Worked with Docker to containerize applications and streamline deployment in cloud environments.
- Automated CI/CD pipelines using GitHub Actions and Docker, improving deployment speed and code quality.
- Integrated third-party APIs and external services, ensuring smooth data exchange and system interoperability.
- Developed and maintained unit and integration tests using pytest to improve code reliability and minimize bugs.
- Worked with AWS (EC2, S3, Lambda) for scalable cloud-based application development and deployment.
- Collaborated with cross-functional teams and followed agile methodologies and participated in code reviews, sprint planning, and daily stand-ups to ensure project success.

Software Developer

Vibe Bees | November 2020 – May 2023 | Full Time

- Performed data analysis using Python to extract insights and support business decisions.
- Built and maintained automated web scraping tools for data collection using Selenium.
- Wrote complex SQL queries and worked with NoSQL databases like MongoDB for data storage and retrieval.
- Developed test automation scripts to validate data pipelines and ensure data integrity.
- Designed and implemented machine learning models for predictive analytics.
- Deployed and managed data solutions using Amazon Web Services (AWS).
- Used Git for version control and participated in code reviews to maintain code quality.
- Communicated technical findings and project updates effectively with cross-functional teams.

Office Helper (Level 4)

Babiyakharka Savings & Credit Co-operative Society Ltd. | November 2019 – August 2020

- Processed financial transactions, including deposits, withdrawals, and loan payments.
- Maintained accurate financial records and assisted in report preparation.
- Handled loan applications, ensuring compliance with cooperative policies.
- Provided customer service and resolved member inquiries efficiently.
- Ensured regulatory compliance and proper documentation of financial activities.
- Assisted in day-to-day administrative and operational tasks.
- Promoted savings programs and conducted financial literacy sessions.

Education

Bachelor of Computer Science

University of Wolverhampton
November 2018 – October 2022

+2 Science

Madhyabindu Multiple Campus
October 2016 – October 2018

SLC (School Leaving Certificate)

Chandeshwari Secondary School
March 2006 – March 2016

Certifications

- **Python for Everybody (Coursera)**
<https://www.coursera.org/account/accomplishments/specialization/certificate/325C68M4UYAU>
 - **Full Stack Web Development with Flask (Pirple)**
<https://www.purple.com/certificates/smyhmjwip4>
 - **Data Mining With Python (Pirple)**
<https://www.purple.com/certificates/smyhmjwip4>
 - **IBM Generative AI Engineering Professional Certificate (Coursera)**
[Currently Learning](#)
 - **IBM AI Engineering Professional Certificate (Coursera)**
[Currently Learning](#)
 - **AI Agent Developer Specialization (Coursera)**
[Currently Learning](#)
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Awards and Appreciations

- **Token of Love – Docker Reimagined, Herald College Kathmandu**
Honored with a Token of Love in recognition of conducting the Docker Reimagined session at Herald College. Delivered an interactive workshop on Docker fundamentals, containerization concepts, and practical use cases, empowering students to gain hands-on experience with modern DevOps tools.
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Projects

- **Note Sagar** | <https://notesagar.com/>
An educational resource-sharing platform for students to access reports and documents. It offers solutions for research papers, assignments, notes, and more.
 - **Precious Waste Refinery** | <https://preciouswasterefinery.com/>
Developed a system for extracting, refining, and managing precious metals from electronic waste. Implemented efficient data tracking for material recovery, optimized processing workflows, and ensured sustainable waste management practices.
 - **Pothole Detection System for Mero Sadak App (AI Project):**
Designed and developed a system to automatically detect road potholes using image processing and/or sensor-based data. The system captures road surface information, analyzes patterns to identify potholes, and provides real-time alerts or mapping for maintenance teams. This helps improve road safety, reduce vehicle damage, and support efficient infrastructure management.
 - **Digital Waste Management System** | <https://madhyabindu.digitalmun.com/>
A digital system will manage waste collection through barcoded sanitation cards, enabling payments via POS, ward offices, or online. It tracks schedules, vehicles, fuel use, and compost production, while allowing flexible rate setup and dynamic reporting on revenue and operations.
 - **Digital Profile** | <https://profile.narpabhumimun.gov.np/>
The Digital Profile system of Narpa Bhumi Rural Municipality is an online platform designed to manage citizen information and municipal services efficiently. Developed with support from Matrix Softech Pvt. Ltd., it facilitates streamlined access to local administrative functions and data management.
 - **Safe Citizen Housing Program (Safe House)** | <https://safecitizenhousing.gov.np/>
The Safe Citizen Housing Program (Safe House) is a community-focused initiative designed to provide secure, affordable, and sustainable housing solutions for citizens. It aims to offer a safe living environment, addressing housing challenges while promoting inclusivity and stability for all families.
 - **Goods Records System** | <https://goods-record-system.mstech.com.np/>
The Goods Records System is a powerful solution for tracking and managing goods with ease. It helps businesses streamline inventory, monitor stock levels, and maintain accurate records for smooth operations.
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Languages

- Nepali (Native)
 - English (Conversational)
 - Hindi (Conversational)
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References

Available on Request