

Lalit Mahato

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Professional Summary

An innovative and results-driven software engineer with 6+ 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, React
 - **Databases:** PostgreSQL, MySQL, MongoDB, Redis, Quadrant, RabbitMQ
 - **Tools & Platforms:** Git, GitHub Actions, Docker, Kubernetes, Selenium, AWS, DigitalOcean, Linux, Nginx, Apache2, Pandas, NumPy, Matplotlib, Scikit Learn, Keras, Pytorch, TensorFlow, Roboflow, RAG, Generative Ai, Ai Agent and Agentic Ai, Prompt Engineering, Yolo, Langchain, Langraph, Cursor, Claude
 - **Others:** REST APIs, Microservices, Agile/Scrum, Web Scraping
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Work Experience

Senior Software Engineer

Matrix Softech Pvt. Ltd. | February 2022 – Present

- Worked on system architecture design and implementation.
- Developed and maintained scalable web applications using Django, FastAPI and Flask, ensuring high performance and reliability.
- Designed and optimised RESTful APIs using Django Rest Framework (DRF) for seamless communication between frontend and backend services.
- Implemented database solutions with PostgreSQL, MySQL, MongoDB, RabbitMQ, Redis and Qdrant, including query optimisation and schema design for efficiency.
- Worked with Kubernetes and Docker to containerise 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 minimise 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.
- Data Cleaning and Labelling
- Build agentic Chatbots using generative AI
- Optimised Prompt for Better response
- Worked on object detection AI projects.
- Worked on AI automation and agentic ai projects.
- Building and optimize RAG pipelines for response generation

Software Engineer

Vibe Bees | November 2020 – May 2023

- 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.
- Build content-based and collaborative recommendation engine.
- 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 Associate (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.
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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](#)
 - **MathWorks Computer Vision Engineer Professional Certificate (Coursera)**
[Currently Learning](#)
 - **AI Agent Developer Specialisation (Coursera)**
[Currently Learning](#)
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Languages

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

Available on Request
