

MANDIPRAJ DHAKAL

Senior Software Engineer / Team Lead

+971 561430014 | mandeepdhakal11@gmail.com | Abu Dhabi, United Arab Emirates



<https://github.com/mandeep111/>

<https://www.linkedin.com/in/mandeepdhakal/>

<https://mandeepdhakal.com.np/>

<https://medium.com/@mandeepdhakal11>

ABOUT ME

Dynamic Senior Software Engineer with 5+ years of experience delivering scalable backend systems and leading teams across microservice architecture, fintech, IoT, and cloud environments. Specialized in microservices architecture, cloud platforms (AWS, GCP, Azure), and building payment systems using Stripe with secure transaction handling, webhooks, and reconciliation. Proven ability to deliver end-to-end products, optimize SQL/NoSQL databases, and design reliable, high-performance systems for production at scale.

PERSONAL DETAILS

Nationality	Date of birth	Visa status	Marital status
Nepalese	03 Dec 1999	Resident	Married

WORK EXPERIENCE

Senior Software Engineer / Team Lead | Hydroneo Co. Ltd. | Bangkok | Apr 2025 - Apr 2026

- Delivered a scalable IoT data processing platform handling inputs from **1500+ Mini Controllers**, enabling real-time monitoring.
- Reduced data aggregation latency by **78%** by implementing **Kafka event pipelines, Redis caching, and MQTT-based (mTLS) communication.**
- Increased operational automation by building control systems for **aerators, motors, and alert mechanisms**, minimizing manual intervention.
- Launched real-time dashboards with **WebSockets and SSE**, improving response time for critical alerts and system visibility.

Senior Software Engineer | Convergestack | Kathmandu | Dec 2023 - Apr 2025

- Delivered a **legal-tech platform** supporting end-to-end workflows for call centers, attorneys, and financial transactions.
- Built a robust **payment processing system** covering transaction initiation, tracking, and reconciliation, ensuring reliability in high-volume flows.
- Enabled seamless online payments by integrating **Stripe (auth, webhooks, refunds, disputes)**, improving transaction success rates, and automation.
- Implemented **Microsoft Auth + Graph API integration**, enabling automated scheduling and calendar-driven workflows.
- Improved database performance by **45%** through advanced **PostgreSQL query optimization** for transaction-heavy workloads.

R&D Specialist / Senior Software Engineer | Laconic Technology Co. Ltd | Bangkok | May 2022 - Dec 2023

- Delivered **5 enterprise MVPs** independently, accelerating product validation and reducing time-to-market.
- Contributed to a **blockchain-based payment platform**, enabling decentralized transactions and wallet interactions.
- Executed zero-downtime migration from **Java 8 → Java 11**, ensuring system stability during upgrade.
- Established **AWS-based cloud infrastructure and backend standards**, improving scalability and engineering consistency.

Software Developer | Convergestack | Kathmandu | Jan 2022 - Dec 2022

- Delivered multiple **production-grade mobile applications** for US clients with **Spring Boot + React Native**, supporting real-world user workflows.
- Built and integrated **cloud-native architectures (AWS, GCP, Azure)**, improving system reliability and deployment flexibility.
- Automated development lifecycle by implementing **CI/CD pipelines (GitHub Actions)**, reducing release friction and manual errors.

Junior Java Developer | InfoDevelopers | Kathmandu | May 2020 - Jan 2022

- Delivered foundational **Spring Boot microservices and REST APIs**, contributing to scalable backend systems.
- Strengthened system reliability and maintainability by adopting **backend best practices and modular design patterns.**

HIGHLIGHTED PROJECTS

Workflow Engine | <https://github.com/mandeep111/workflow-management> | Java, Spring Boot, Oracle, Maven, Keycloak | May 2022

ClickUp-Like Project Manager | <https://github.com/mandeep111/custom-jira> | Spring Boot, Oracle | Jul 2023

LangChain RAG Application | <https://github.com/mandeep111/langchain-rag-app> | Python, FastAPI, LangChain | Sep 2025

EDUCATION

Bachelor's Degree - Computer Science & IT, Ambition College, Tribhuvan University, Kathmandu, Nepal | 2020

Undergraduate, Devi Higher Secondary School, Jhapa, Nepal | 2016

Mahatma Gandhi Scholarship Recipient

SKILLS

- Java • Spring Framework • Kotlin • Python • FastAPI • Microservices • REST APIS • React • Next.js • AWS • GCP • Azure
- Docker • CI/CD pipeline • PostgreSQL • MongoDB • Redis • RabbitMQ • Firebase • Tomcat/Netty • Cloud-native systems • Kafka
- InfluxDB • Oracle • OAuth2 • JWT • Keycloak • LLM Integration • RAG • LangChain • OpenAI APIs • Git • Twilio
- Distributed Systems • Generative AI • Event-driven architecture • Automation • n8n • Oracle • Stripe • Paypal Integration

LANGUAGES

- Nepali (Superior/Native) • Hindi (Advanced Mid) • English (Advanced High)

CERTIFICATIONS

Deep Agents with LangGraph | <https://academy.langchain.com/certificates/oopklozmij> | LangChain Academy | Sep 2025

Deep Research with LangGraph | <https://academy.langchain.com/certificates/7fch0apf8m> | LangChain Academy | Oct 2025

Building Ambient Agents with LangGraph | <https://academy.langchain.com/certificates/baahmvhrsn> | LangChain Academy | Dec 2025

REFERENCES

Dr. Dirk Bauer | Hydroneo Co. Ltd, Thailand | d.bauer@hydroneo.net

Alex Chyr | Laconic Technology Co. Ltd, Thailand | alex@laconic.co.th

Neal Khatiwada | Converge Stack LLC, USA | neal@convergestack.com

Srijan Ghimire | Innovent WIOT360 IT Solutions L.L.C, UAE | +971 502531630 | srijan.ghimire@wiot360.com