Furi Sherpa Lama

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Junior DevOps, Cloud and Full-Stack Engineer | AWS Certified Solutions Architect – Associate

Summary

AWS Certified Solutions Architect – Associate and Computer Science with AI undergraduate who builds and deploys full-stack JavaScript applications. Designed the backend architecture for the team that won 1st place in the DeerHack 2026 AI/ML track, and built a MERN app used by 10 people for over 4 months. Hands-on with AWS EC2, Nginx, SSL/TLS, Docker, GitHub Actions and Linux.

Skills

- **Cloud and DevOps:** AWS (EC2, S3, VPC, IAM, RDS, Elastic Load Balancing, Auto Scaling, CloudWatch, Route 53), Docker, Docker Compose, GitHub Actions, CI/CD, Nginx (reverse proxy, SSL/TLS), Linux (Ubuntu), Bash, Git, GitHub, Vercel, Netlify, Render, cron jobs
- **Backend:** Node.js, Express.js, REST APIs, JWT authentication, WebSockets
- **Databases:** PostgreSQL, MongoDB (Atlas, Mongoose), Supabase, MySQL
- **Frontend:** React, Next.js, TypeScript, JavaScript, Tailwind CSS, HTML, CSS, Figma
- **Languages:** JavaScript, TypeScript, Python, C, SQL

Experience

Backend and Systems Lead, DeerHack 2026 Hackathon (DWIT Software Club)
Kathmandu, Nepal | Jun 2026
Project: Drug-Drug Interaction Risk Analyzer, team of 4

- Won 1st place in the AI/ML track out of 8 teams (16 teams selected overall, including 2 from India) by designing the system architecture and building the Node.js, Express and PostgreSQL backend.
- Turned a teammate's graph neural network (ROC-AUC 0.884, 98.8% recall) into a working product that checks every drug pair against 1,317 known side effects, by connecting a React frontend, an Express API and a Python model service through REST APIs.
- Delivered a working end-to-end demo within the 48-hour deadline by running the team's Git and GitHub workflow (branching, merging, resolving conflicts) and fixing integration bugs across the frontend and backend.

Technical Lead, Hackaverse 2026 Hackathon (Prime College)
Kathmandu, Nepal | Sep 2026
Project: Copi, an AI health assistant for parents, team of 4 | kopila.vercel.app

- Built a system with 29 database tables, 16 background jobs and a 12-stage message-processing pipeline by choosing the tech stack (Node.js, Express, PostgreSQL, React), designing the architecture and leading backend development.
- Deployed the React frontend to Vercel and the Express API to Render, with Telegram and Google Gemini integrations and 9 unit test suites that run without a database, network or API keys.

Backend Developer, LumbiniX 2026 National Hackathon (Lumbini City College)
Rupandehi, Nepal | Aug 2026

- Represented my college as one of 10 teams shortlisted nationwide for a 48-hour hackathon, strengthening backend security, fixing backend bugs and building a 3D drug-relationship visualization for a patient-specific version of the drug interaction analyzer.

Projects

FlatShare, Expense-Sharing Web App | React, Node.js, Express, MongoDB Atlas, JWT, Tailwind CSS
flat-share-v1.vercel.app | github.com/lamafuri/Flat-Share

- Replaced manual rent and grocery bill-splitting for 10 active users in 2 shared flats for over 4 months, by building a MERN application with email OTP sign-up, group invitations, Nepali (Bikram Sambat) dates and automatically generated per-person bills.
- Kept the free-tier deployment (Vercel frontend, Render backend, MongoDB Atlas) responsive by scheduling a cron job that stops the backend from spinning down.

AWS Cloud Deployment Lab | AWS EC2, Nginx, SSL/TLS, Docker, GitHub Actions, MongoDB Atlas

- Deployed a full-stack application on an AWS EC2 instance in a sandbox environment, serving it over HTTPS with an SSL/TLS certificate and using Nginx as the reverse proxy and static file server, while preparing for the AWS SAA-C03 exam.
- Containerized the application with Docker and automated its build with a GitHub Actions workflow.

MedSync, QR-Based Medicine Tracking | MongoDB, Express, React, Node.js, Cloudinary
med-sync-yukti.vercel.app

- Built patient and pharmacist web apps that share one MongoDB database, with JWT authentication, QR-code access for pharmacists, prescription uploads and a daily cron job that updates medicine stock.

Certifications

- AWS Certified Solutions Architect – Associate (SAA-C03), Amazon Web Services, Jun 2026

Awards

- 1st Place, AI/ML Track, DeerHack 2026, Jun 2026
- Runner-Up, CodeCraft C Programming Challenge, National School of Sciences, 2024–25 (about 150 participants)

Education

BSc (Hons) Computer Science with Artificial Intelligence
Birmingham City University, Sunway College Kathmandu | Nov 2025 – Nov 2029 (expected)

+2 Science (Computer Science)
National School of Sciences, Lainchaur, Kathmandu | Aug 2023 – Apr 2025

Languages

English, Nepali, Hindi