

# Saroj Paudyal

## Lead Engineer

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### Summary

Skilled Software Engineer with 7+ years of hands-on experience building, testing, and optimizing web-based applications for diverse industry organizations. Knowledgeable in identifying core technical problems, finding better solutions to existing problems, and maintaining development velocity by creating processes and regulating them. Capable of visualizing goals, prioritizing them based on general importance, and conquering them together with the team. Driven individual with the ability to adapt to any situation and proven potential to grow self and others.

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### Technical Skills

**Languages and Scripts:** Javascript/NodeJS, GoLang, Python, Java, C, C#

**Frameworks and Libraries:** Express, Django, Spring (Java), Flask, ReactJs, Redux, Llama\_index, Ollama

**Generative AI/LLM Tools:** Gemini Live (for voice-to-voice agents), ChatGPT, Mistral, Claude (for speedy development)

**Database:** My SQL, PostgreSQL, MSSQL, MongoDB, Firebase, DynamoDB

**VCS:** Git, Github, Bitbucket, Gitlab

**AWS services:** EC2, S3, Lambda, RDS, Cloudwatch, SQS,SES, ECS, ECR

**Containerization and orchestration:** Docker

**Collaboration:** JIRA, Slack

**Methodology:** Scrum

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### Professional Experience

#### Lead Engineer, Leapfrog Technology Pvt. Ltd.(January 2026 - Present)

- Leading the technical direction, architecture, and delivery of multiple products and strategic initiatives across cross-functional teams.

- Designed and developed AI-powered applications, including real-time voice-to-voice assistant systems focused on improving customer engagement, operational efficiency, and service automation.
- Led the migration of critical third-party platforms and services (including scheduling and workflow systems) to in-house solutions to reduce operational costs, improve flexibility, and gain greater control over business processes.
- Collaborated closely with Business Analysts, product stakeholders, and clients to identify business pain points and translate them into scalable technical solutions that improved operational workflows and customer experience.
- Drove architectural decisions emphasizing scalability, reliability, maintainability, security, and long-term business impact.
- Introduced automation initiatives across customer service workflows using conversational AI and intelligent process automation, reducing manual operational overhead.
- Led engineering teams through system design discussions, code reviews, technical planning, and implementation of engineering best practices.
- Mentored engineers across different experience levels, providing technical guidance, growth pathways, and hands-on support in complex problem-solving and system design.
- Improved development efficiency by streamlining CI/CD pipelines, deployment processes, monitoring strategies, and development workflows.
- Worked closely with clients and stakeholders to align technical solutions with business objectives while ensuring transparent communication and timely delivery.
- Conducted technical evaluations and research on emerging technologies, especially in AI and automation, and drove adoption where it created measurable business value.
- Played a key role in improving engineering standards, documentation quality, team collaboration, and long-term maintainability of systems across projects.

### **Senior Software Engineer, Leapfrog Technology Pvt. Ltd.(February 2023 - December 2024)**

- Analyzed, designed, developed, deployed, and maintained medium-scale projects. Wrote modular, reusable, and excellent-quality code through TDD, code reviews, and implementation of best practices. Ensure the same within the team.
- Made architectural decisions in collaboration with technology experts, and ensured proper technical documentation.
- Ensured scalability, performance, reliability, and security of the application

- Was involved in project risk analysis and mitigation, continuously reviewing problems to determine the root cause to prevent them in the future.
- Automated deployments, integrated CI, and performed manual implementations when needed.
- Mentored and shared knowledge within the team and outside the team as well when necessary and helped in the continuous growth of junior team members.
- Was actively involved in ensuring the implementation of organizational culture, process, and standards in the team.
- Communicated effectively with the client and team.
- Kept up with technology trends, implemented trending technologies within the project, and provided training to the team.

### **Software Engineer, Leapfrog Technology Pvt. Ltd.(February 2021 - January 2023)**

- Worked on the analysis, design, development, deployment, and maintenance of small-scale projects independently.
- Wrote modular, reusable, and excellent-quality code, performed code reviews, and implemented best practices.
- Developed RESTful APIs as needed.
- Created and maintained technical documentation.
- Shared knowledge within the team and actively participated in the code review process.
- Automated deployments, integrated CI, and performed manual implementations when needed.
- Followed the company's coding standards, policies, processes, and working culture and ethics.
- Communicated new ideas, issues, status, and outcomes with PM/TL/team and with clients as necessary
- Continuous research and learning; discover, evaluate, and implement new technologies to maximize development efficiency.

### **Associate Software Engineer, Leapfrog Technology Pvt. Ltd. (December 2019 - January 2021)**

- Developed web applications with various JavaScript technologies like ReactJS, NodeJS, etc.
- Engaged in code review considering the best practices, principles, design patterns, and problem-solving techniques
- Worked collaboratively within the team to develop high-quality software solutions
- Followed the company's coding standards, policies, processes, and working culture
- Communicated new ideas, issues, status, and outcomes with PM/TL/team

## Software engineering intern, Leapfrog Technology Pvt. Ltd. (October 2019 - November 2019)

- Worked in a competitive environment to develop challenging projects and learn new tech stacks.
  - Learned ABCs of UI/UX and created a pixel-perfect UI from PSD.
  - Learned basics of game development in JS.
  - Developed mini-games in JS from scratch.
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## Major Projects

### Vyaguta

An Information management system and enterprise resource management software of Leapfrog Technology Inc.

#### Roles:

- Build Single Page Applications (SPAs) for multiple modules of the Vyaguta system using ReactJS, Redux, and Javascript (ES6).
- Work on the AWS cloud platform and used services like Fargate, SQS, RDS S3, etc to make a robust and scalable web application.
- Work with the UI/UX team to define screen designs.
- Design and create RESTful APIs for multiple microservices of the system using NodeJS and Express.

## Other Projects (Personal & College)

### 1. Chautari

**Info:** A secure real-time chatting application using WebSockets with a generic authentication module (HamroAuth), age verification, and profanity detection.

**Stack:** Express (NodeJS), ReactJS (typescript), Flask (Python3), Spring (Java), MongoDB, PostgreSQL, CircleCI, AWS S3, AWS Lambda.

### 2. HamroAuth

**Info:** A generic authentication module that can be integrated into any application. Admins can manage users and track the status/API usage. Provides login/signup pages to applications.

Stack: ReactJS (typescript) for Frontend and Spring (Java) for backend, PostgreSQL DB, CircleCI, AWS S3 Bucket

### **3. Koora**

Info: A content/article-sharing web forum application.

Stack: HTML/CSS for Frontend, Django (Python) for backend, PostgreSQL DB, CircleCI, AWS S3

### **4. K cha!**

Info: Chat application for Android with multimedia-sharing features.

Stack: Android Studio (Java), Firebase real-time DB

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## **Certifications**

### **AWS Certified Solutions Architect Associate**

<https://www.credly.com/badges/b92ca3b7-09e5-46ca-98ff-3bef48f8e444>

## **Education**

### **University of Wolverhampton**

Bachelor (Hons.) in Computer Science, Herald College Kathmandu (2019-2021)