

Sujan Lamichhane

Full Stack Engineer

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PROFESSIONAL SUMMARY

Full Stack Engineer with 2+ years of experience fullstack applications. Proven track record in developing and customizing HRMS solutions and employee management modules. Proficient in Node.js, Angular, React and Python, with strong database design skills (PostgreSQL). Experienced in designing RESTful APIs, scalable system architecture, and SaaS platforms.

EDUCATION

- **Bachelor in Computer Engineering** 2019 – 2024
Thapathali Campus, Institute of Engineering, Kathmandu CGPA: 7.05

EXPERIENCE

- **Team Fourteen Zones** Feb 2026 – Apr 2026
Software Engineer
 - Implemented a secure authentication layer using JWT, custom middleware, and role-based access control, adhering to OWASP security best practices.
 - Configured MinIO for object storage, integrating it with the core application while managing file system permissions and network access controls.
 - Architected a multi-tenant SaaS backend with role-based access control, row-level security in PostgreSQL, and isolated database schemas per client, ensuring scalability and data privacy.
- **Vertex Special Technology** Apr 2024 – Feb 2026
Associate Software Engineer
 - Developed and maintained a comprehensive HRMS solution (covering employee lifecycle, attendance, leave management, payroll) for enterprise clients, ensuring data integrity and secure transaction flows.
 - Built and customized ERP modules including finance, inventory, and procurement, integrating them with the core HRIS platform to provide a unified business management suite.
 - Designed and implemented RESTful APIs using Node.js (Express) consumed by Angular frontends.
 - Developed reusable UI components in React for dynamic forms, employee self-service portals, and interactive dashboards, improving user experience and reducing development time by 30%.
 - Contributed to VStellar Studio, a custom Electron-based IDE for internal testing, developing core Node.js modules for file system interaction and test runner integration.
 - Containerized microservices with Docker, and deployed applications on AWS EC2 and Hostinger VPS with Nginx as reverse proxy.
 - Collaborated remotely with cross-functional teams to define technical requirements, deliver project milestones, and provide post-deployment support, demonstrating ability to work independently in a remote setup.

PERSONAL PROJECTS

- **Microservices E-Commerce Platform**
NestJS, RabbitMQ, MongoDB, Elasticsearch, Clerk, Cloudinary, Docker, PM2, Nginx
 - Designed and implemented a scalable, production-grade microservices architecture using NestJS, featuring distinct services for catalog management, authentication, and order processing.
 - Engineered robust inter-service communication using RabbitMQ, implementing both RPC patterns for synchronous requests and event-driven messaging for asynchronous updates.
 - Built a centralized API Gateway with Clerk JWT integration, creating custom guards and decorators for granular, role-based access control across microservices.

- Developed a Catalog Service with MongoDB for flexible product data management and a high-performance Search Service leveraging Elasticsearch for efficient indexing and retrieval.
- Integrated Cloudinary for scalable media storage and implemented a global error-handling layer using ‘RpcException‘ and standardized DTOs.
- Deployed the entire application to a Hostinger VPS (Linux).

TECHNICAL SKILLS

- **Languages:** Python, JavaScript/TypeScript, SQL, Bash
- **Frontend:** React, Angular, HTML5/CSS3, Responsive Design
- **Backend & Systems:** Node.js, NestJS, Express.js, FastAPI, Linux (Ubuntu), Nginx
- **Databases & Search:** PostgreSQL, MongoDB, Redis, Elasticsearch
- **DevOps & Automation:** Docker, Git, Bash scripting, CI/CD basics
- **Messaging & Security:** RabbitMQ, JWT, OWASP Basics, RBAC, Multi-tenancy
- **Testing & Tooling:** Jest, pytest, Electron, Postman
- **Cloud & Services:** AWS EC2, S3, Cloudinary, Hostinger VPS