

Roshan Paudel

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Experience

IDenTV LLC | CA, San Francisco

Software Engineer (Remote) | 03/2022 - 12/2023

- Worked extensively with microservice architecture and design; Proficient in using gRPC for inter-service communication, and used RabbitMQ as a message broker
- Experienced in using databases like MongoDB, My SQL, PostgreSQL, Elasticsearch and Qdrant
- Designed and developed system architecture for a distributed system
- Led a team of 5 developers in an Agile environment, successfully delivering major releases on time and within budget.
- Experience working with Docker, CI/CD pipelines using CircleCI and Kubernetes
- Implemented a logging and monitoring solution using Prometheus and Grafana, resulting in a 30% decrease in downtime.
- Testing and Documentation using Open API V3 and Postman

Leafnode Technology | Bagmati, Kathmandu

Full Stack Developer (MERN Stack) | 06/2021 - 02/2022

- Created database schemas, REST APIs that support business processes and integrated them.
- Implemented PayPal and Stripe Payment Gateways to the ecommerce application built with MERN Stack.
- Integrated AES-256 Encryption/Decryption Cipher to securely store the confidential information in the database.
- Communicated and maintained strong relationships with clients by delivering every project before deadlines
- Significantly optimized backend resulting in more sales of product

XYBA Health Technologies | VA, Vienna

Junior Node JS Developer | 06/2020 - 05/2021

- Responsible for creating REST APIs and optimized complex mongodb aggregations
- Integrated Socket.io to Node JS application
- Authentication and Authorization using JWT token
- Deployed Node JS Application in AWS LightSail and pointed out to Domain. Managed AWS LightSail instances

Skills

C++ , C, Python , C Sharp, Java, JavaScript, REST API , Express.js, Socket.io, React.js, Redux, Next JS, MongoDB, Redis, MySQL, Elasticsearch, RabbitMQ, gRPC, Swagger, Git, Jira, Mocha, Chai, Jest, Sinon JS, AWS S3, AWS EC2, AWS LightSail, Heroku, Netlify, mongoose, sequelize, typeorm, Redis, Qdrant, Docker, Node JS , RabbitMQ , Kubernetes, Blockchain, PostgreSQL, DynamoDB, Agile Project Management, Azure

Education

University Of South Dakota | Vermillion, SOUTH DAKOTA

Master in Computer Science | 08/2025

Artificial Intelligence, Machine Learning, Distributed Systems, Data Mining, Software Development, Computer Networks and etc.

Tribhuwan University | Kathmandu, Bagmati

Bachelor in Computer Science | 08/2021

Undergraduate Coursework: Operating Systems; Digital Logic; Theory of Computation; Databases; Data Structures and Algorithms; Programming Languages; Web Technology; Java Advanced Programming; Comp. Architecture; Microprocessor; Calculus III etc.

Training and Certifications

AWS Training Certificate, AI/ML Training Certification from IEEE

Projects

[Retrieval Augmented Generation \(RAG\) \(2024\)](#) - Reduced the LLM hallucinations by significant amount and improved the model response quality - Technologies Used: React JS, Elasticsearch, Python, GPT-3.5 Turbo (LLM), Fast-API

[Mero Chatroom Application \(2020\)](#) - Mero Chat Room is a role-based web application where a user can register, login, can create unique chat rooms & add others users to the room and chat with them about the confidential Issues. - Technologies Used: Node JS, Express JS, MongoDB, React JS, Socekt.IO

Languages

English, Hindi