

Roshan Chaudhary

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PROFESSIONAL SUMMARY

As a backend developer with over 2 years of hands-on experience, I specialise in designing and developing scalable and secure distributed systems. I have experience in working with micro-services by incorporating scalable patterns like the strategy/factory pattern, builders pattern, proxy pattern and opting for clean, readable coding practices. Leveraging these, I also have experience in deployment with cloud services like AWS, VPS and CI/CD pipelines.

EDUCATION

IOE Purwanchal Campus

Bachelor's in Computer Engineering

Dharan, Nepal

Aug 2020 - April 2025

EXPERIENCE

Backend Developer

MITRA Consultancy

2024 – present

Nepal

- Architecture and designed scalable distributed system for a talent showcasing social media app using both relational(PostgreSQL, MySQL) and non-relational(MongoDB) databases
- used Kafka (for high throughput) for the implementation of event-driven architecture.
- implemented complex features like calling with complex WebRTC implementation (used STUN/TURN servers), chat with socket.io, payments, CRON for expiring subscriptions and deleting stale records/documents, used AWS S3 for storing documents etc
- Wrote clean, readable and maintainable code adhering to coding standards and best practices catering a custom library.
- Collaborated with frontend developers and participated in code reviews.
- Deployed all the services through a api gateway in an AWS EC2 instance.

PROJECTS

TutorSansar | *NodeJs , NextJs*

www.tutorsansar.com

- Developed the MVP for Tutor matching platform for students and a personalised learning system.
- features: auth, notification, cronJobs, redis, BullMQ, consensus, vps.

SpeakPix | *React Native, gpt-2, flask*

<https://github.com/Roshanchau/autism-app>

- Developed an interactive mobile application for people with autism, dyslexia, and learning issues to aid in social interaction and communication.
- Utilized React Native for cross-platform mobile development and gpt-2 LLM for next-word prediction.

IntelliDocs | *python, fast API, AWS S3*

major project(<https://github.com/Roshanchau/IntelliDocs>)

- Contributed to a document's querying chatbot enabling users to upload and query documents using natural language prompts.
- For instance, users can store legal or health-related documents and query about it anytime.
- Implemented document processing and storage with MongoDB Atlas, AWS S3.

skilio | *Node.js, Express.js, postgres, typeORM , Microservices*

at MITRA consultancy

- Developed a scalable backend service for skills showcasing social media app, including microservices, reels, chat, calling, payments, notification, and content moderation features.
- used PostgreSQL for user/customer service, MySQL for payments, and MongoDB to store posts/reels

Quantum tic-tac-toe | *python , qiskit*

https://github.com/Twtamaris/quantum_tic_tac_toe

- Developed a quantum tic-tac-toe to visualize superposition and entanglement using different quantum gates like c-not gate for our minor project, used the Python library called qiskit for quantum computing

DRF | *python , django , drf*

<https://github.com/Roshanchau/DRF>

- explored Django's DRF framework for basic REST api CRUD operations

VirtualSathi | *Nodejs , Express, mySql*

<https://github.com/YuneshShrestha/momo.coders;icquest>

- Won the best futuristic implementation category at IICQUEST with this project.
- Developed backend for VirtualSathi application focusing on mental health and well-being for students
- Implemented RESTful APIs using Node.js and Express.js, integrated MySQL with Prisma ORM, and utilised Avien services

ACHIEVEMENTS

- Winner of the Best Futuristic Implementation in the IICQUEST 2024
- 1st Runner Up at Hackathon organized by ACES Techfest 5.0
- Local level NASA Space Apps winner

TECHNICAL SKILLS

Languages: JavaScript, Python, C++ , Typescript , c , GO

Frontend: React, Next.js, Tailwind CSS, Redux, Zustand, React Native

Backend: Node.js, Express.js, Flask, FastAPI

Databases and ORMs: MongoDB, PostgreSQL, MySQL, Prisma ORM, Type ORM, Firebase, Redis

Cloud: AWS , VPS

Tools: Git, Docker, NGINX, CI/CD

KEY COMPETENCIES

Problem Solving: Strong ability to create and resolve different scenarios and solve problem, keeping trade-offs and costs in mind .

Teamwork: Proven experience working collaboratively in team settings.

Learning: Up-to-date with AI and latest engineering blogs.