

# Sujan Basnet

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Motivated Software Developer and DevOps Engineer with around 3 years of experience in building, deploying, and managing scalable distributed systems. Proficient in software development, cloud services, containerization, and modern DevOps practices. Seeking to leverage my expertise in both development and operations to contribute to a dynamic team focused on building and maintaining robust, scalable applications.

## EXPERIENCE

### Full Stack Developer Yayawar Tech Pvt. Ltd.

2022 – present

- Developed, Deployed and maintained web applications.
- Managed distributed systems with event-driven architecture.
- Implemented cloud solutions with AWS.
- Developed scalable backend systems with Node.js, Django, FastAPI, Flask and Golang.
- Designed dual-database architecture in Django projects.
- Integrated Shopify API.
- Bulk migration to RDS.
- Centralized logging.

## TECHNICAL SKILLS

### Frameworks:

- **Python:** Django, Flask, FastAPI, Beautiful Soup, Scrapy, Numpy, Pandas, Selenium
- **JavaScript:** ReactJS, Node, Express, NestJS, NextJS, Hono
- **Golang:** Fiber, Gin

### DevOps Tools:

Docker, Kubernetes, Jenkins, Github Actions

### Protocols & APIs:

JSON, GraphQL, REST, WebSockets, RabbitMQ, Webhooks, Server Sent Event (SSE)

### Cloud Platforms:

- **AWS:** EC2, S3, RDS, Cloudwatch, SQS
- **Digital Ocean:** VPS environment
- **Yeti Cloud**

## EDUCATION

**Ambition College,**  
Baneshwor — *CSIT*  
2021 - Present (Final Semester)

## Soft Skills

- Problem-Solving
- Team Collaboration
- Communication Skills
- Time Management

## LANGUAGES

English, Nepali

## References

**Manjul Bhattra**

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## **System Design & Architecture:**

Microservice Architecture, Distributed Systems, Scalability and Performance Optimization, High Availability and Fault Tolerance, API Design (REST/GraphQL), Caching and Load Balancing, Server Side Rendering and Proxies, Containerization and Orchestration (Docker, Kubernetes)

**Others:** Git and Github, Shell Scripting, Redis, RabbitMQ (Message Broker), Prisma (ORM), Nginx, GraphQL, TypeScript, Monorepo, UV Package Manager (Python), Hono Framework, TailwindCSS, Wix, Newsletters, Google Analytics (G4), HTMX

## **MAJOR PROJECT**

**InterviewPro:** Web-based platform that automates interview processes.

### **Features:**

- Distributed system architecture for scalability and reliability.
- Question recommendations based on expertise.
- Speech-to-text transcription with Whisper AI.
- Evaluation using cosine similarity to compare answers.
- User authentication, real-time processing, and secure data handling.

**Tech Stack:** MERN stack, python(Flask), RabbitMQ, open-source tools.

**Benefits:** Streamlines hiring, reduces manual effort, improves consistency, scalability, and cost-effectiveness.

**Testing:** Includes unit, integration, performance, and accuracy testing to ensure functionality, scalability, and precision.

### **Architecture:**

The Automated Interview System architecture first recommends questions based on the candidate's expertise. Once the questions are presented, React.js streams the candidate's audio responses to Node.js, which forwards the data to RabbitMQ. Flask combines and transcribes the audio using Whisper AI, then compares the transcriptions to predefined answers using cosine similarity for evaluation. The results are published back to RabbitMQ, consumed by Node.js, and stored in a database, ensuring a scalable and real-time interview processing workflow.

## OTHER PROJECTS

### College Management System(Backend)

[<https://github.com/Sujan167/Academia-Backend.git>]

- Built with Node.js, MySQL, Prisma ORM, and Redis for caching, email, using event-driven architecture.
- Implemented role-based authorization and JWT authentication.

### GeoHub

[<https://github.com/Sujan167/GeoHub.git>]

- Developed with Node.js, WebSockets, and Leaflet.js to enable real-time location sharing and chat within groups.

### Payment Integration Backend

[<https://github.com/Sujan167/Payment-gateway-integration.git>]

- Integrated Khalti, eSewa, and Stripe payment gateways in Node.js applications for Handling secure payment transactions and webhook callbacks.

### IShare (Social Media Application)

[<https://github.com/Sujan167/IShare.git>]

- Built with Django and OAuth 2.0 (Google, GitHub) with basic CRUD operation and user management.

### Bash, Docker-compose, PostgreSQL, and Python Integration

[<https://github.com/Sujan167/Integration-of-Bash-Docker-compose-PostgreSQL-and-Python.git>]

- Automates the process of uploading JSON data to a PostgreSQL database running in a Docker container using a Python script.
- Bash script sets up the environment, installs dependencies, manages Docker container lifecycle, and executes the data upload.