GOVIND KUMAR YADAV

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Summary

Backend Developer and DevOps enthusiast with strong experience in Node.js, Express, REST APIs, CI/CD pipelines, Cloud Infrastructure, and containerized deployments. AWS Certified Cloud Practitioner with hands-on experience in automation, IaC, monitoring, and scalable backend systems.

TECHNICAL SKILLS

Languages: JavaScript (Node.js), Python, C/C++, Java, Bash
Backend: Express.js, MongoDB, REST APIs, GraphQL, MVC Architecture, Microservices
DevOps: CI/CD (GitHub Actions), Docker, Nginx, CloudFormation, Terraform (basic)
Cloud: AWS (EC2, S3, IAM, RDS, Lambda, CloudWatch, ECR, ECS, Load Balancers)
Database: MongoDB, PostgreSQL, MySQL
Tools: Git, GitHub, Postman, PM2
Frontend Mobile: Flutter, Dart, HTML, CSS, JavaScript, React
Concepts: Data Structures Algorithms, System Design

EDUCATION

IOE, Pashchimanchal Campus (WRC), Tribhuwan University   Lamachaur, Pokhara
Bachelor in Electronics, Communication, and Information Engineering   March 2022 - Present
Honors/Awards: Received Government Scholarship on merit basis for 4 year course

EXPERIENCE

Backend Development Mentor | Self-Conducted Mentorship Program (June, 2025)

- Designed and delivered a 2-weeks mentorship program covering JavaScript, Node.js, Express, REST APIs, and MongoDB fundamentals for beginners in backend development.
- Taught core concepts including event loop, async programming, HTTP methods, middleware, and API structuring with real-world use cases such as a To-Do CRUD API.
- Developed modular backend codebases demonstrating clean architecture, proper routing, and reusable components using MVC principles and Express.js.
- Provided hands-on guidance on Git and GitHub workflows, Postman API testing, and deployment using Render/Railway.
- Created structured learning resources and code examples to support students independent practice and long-term growth.
- Encouraged good development practices including debugging, clean code, and led them to make and present a project at end of the session.

CERTIFICATION

Build a Backend REST API with Node JS from Scratch (Nov 28, 2024)

AWS Certified Cloud Practitioner (Dec 09, 2025)

AWS Certified Solution Architect Associate (Feb 02, 2026)

Dart & Flutter | The Complete Flutter Development Course (April 11, 2024)

AWS Cloud Foundataions Course | AWS Cloud Club Nepal (September , 2025)

PROJECTS

AuthVerse: Multi-Method Authentication System API | Node.js, Express, MongoDB, Passport.js   May, 2024

- Developed a modular authentication API supporting OAuth (Google, GitHub, Facebook), Magic Link, OTP based login and 2FA using Passport.js and JWT for scalable and secure login flows.
- Implemented email-based Magic Link authentication via Nodemailer with App Password support, and integrated Google Authenticator-based 2FA using TOTP and QR code generation.
- Designed a flexible backend architecture for extending login providers and session strategies while ensuring user identity validation and token expiration handling.

Tagify Content Management System API – Blog Platform with Categories & Tags | Node.js, MongoDB   July 2025

- Designed and implemented a modular backend-only Content Management System (CMS) using Node.js, Express, and MongoDB following RESTful API standards.
- Built a flexible post management system with category and tag support, allowing one-to-many and many-to-many relationships respectively.
- Implemented advanced filtering, sorting, pagination, and full-text search using MongoDB indexing and dynamic query construction.
- Developed endpoints for analytics (likes, views, shares), trending content, author-wise filtering, and time-based queries using aggregation pipelines.
- Applied performance optimizations through indexed queries, schema normalization, and population of references ('.populate()').
- Secured API routes with middleware for authentication, input validation, and error handling, ensuring robust and scalable architecture.

Progress Feed App | Flutter, Firebase   April 2023

- Developed during OSM Hackfest to address the need for transparency in government infrastructure projects.
- Enables users to track construction progress of roads, hospitals, and other public works with real-time updates and media attachments.
- Utilized Firebase for backend services including user authentication, data storage, and cloud synchronization.
- Designed with a clean UI using Flutter widgets, enabling role-based access for administrators and citizens.

Honors & Awards

Code With Coffee 2024 - Winner   February 2024

- Won a coding competition organized by ICES in a team of two members.
- Developed and presented solutions under time pressure, demonstrating problem-solving and collaboration skills.

OSM Hackfest 2023 - Participant   April 2023

- Participated as a team of four with a project to track construction progress of government infrastructure.
- Built a mobile app using Flutter and Firebase.