GOVIND KUMAR YADAV

govind803556@gmail.com | +9779824803556 | Kalyanpur-09 Siraha, Nepal

govindyadav.com.np | ⬡ GovindKrYadav | 🔗 GovindKrYadav

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
Relevant Coursework
- **Mathematics:** Engineering Mathematics(I, II, III), Probability and Statistics, Applied Mathematics, Discrete Structures, Numerical Methods, Discrete Structures, Digital Signal Analysis and Processing
- **Computer Science:** Computer Programming, Object Oriented Programming, Data Structure and Algorithm, Computer Graphics, Database Management Systems, Artificial Intelligence, Enterprise Cloud Computing, Big Data Technologies, Multimedia Systems

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)

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

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

Microsoft Learn Student Ambassador | MLSA (February, 2024)

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.

Random Quote Generator | Flutter, Shared Preferences November 2023

- Mobile application that fetches and displays motivational quotes via an external public API.
- Allows users to save their favorite quotes using local storage and revisit them anytime without internet.
- Implemented Shared Preferences to manage offline bookmarks and light/dark theme preferences.
- Enhanced user experience with daily quote notifications and a minimalistic design.

To-Do App | Flutter, Firebase, Provider January 2023

- Built a personal productivity app to manage daily tasks with real-time sync and persistence.
- Integrated Firebase for cloud-based authentication and Firestore database for task storage.
- Used Provider for efficient state management and UI reactivity across task creation, updates, and deletion.
- Enabled offline functionality with Shared Preferences and intuitive filters for completed and pending tasks.

TECHNICAL SKILLS

Backend Development: Node.js, Express.js, Database(SQL and NoSQL - MongoDB)
Web Development: HTML, CSS, JavaScript
Mobile App Development: Flutter, Dart
Programming Languages: C, C++, Java, Python
Tools: Git, GitHub, AWS, Linux
Computer Science Concepts: Data Structures and Algorithms (DSA)

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.