

ANIKET PANGAVHANE

Software Engineer | Backend Development

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Profile

Software engineer with hands-on experience building backend applications using Node.js, Express.js, MongoDB, and React. Developed secure authentication systems, REST APIs, and database-driven applications while integrating machine learning into practical solutions. Interested in designing reliable, maintainable backend systems and solving real engineering problems.

Technical Skills

Languages: JavaScript • Python • SQL • C++

Backend: Node.js • Express.js • REST APIs • JWT Authentication • MVC Architecture

Databases: MongoDB • MySQL

Core CS: Data Structures • OOP • DBMS • Operating Systems • Computer Networks

Libraries: Scikit-learn • Pandas • NumPy

Projects

AI Wealth Manager

MERN, Gemini API

- Designed and developed REST APIs to manage user accounts, income, expenses, and financial records.
- Implemented JWT-based authentication and authorization to secure protected routes.
- Structured MongoDB collections for efficient storage of user and transaction data.
- Integrated Google's Gemini API to generate personalized financial insights from spending history.
- Implemented request validation and centralized error handling to improve backend reliability.

AuthCore – Authentication & Authorization Service

Node.js, Express.js, MongoDB

- Built a reusable authentication service supporting registration, login, and role-based access control.
- Implemented JWT authentication middleware for protected APIs.
- Secured user credentials using bcrypt before storing them in MongoDB.
- Organized the backend using MVC architecture for maintainability and scalability.
- Designed reusable authentication modules suitable for integration into multiple web applications.

AgroInspect – ML Crop Recommendation Platform

Python, Random Forest, MERN

- Developed a Random Forest based crop recommendation model using soil nutrients and environmental parameters.
- Built backend APIs to collect user inputs and return prediction results.
- Connected the trained ML model with the MERN backend for real-time recommendations.
- Applied preprocessing and input validation to improve prediction consistency.

Education

MIT ADT University, Pune

2022–2026

B.Tech in Information Technology

CGPA: 7.16/10

Achievements

- Secured 3rd place in the University Data Structures & Algorithms Competition using C++.