

# NIHAR PANCHAL

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## PROFESSIONAL SUMMARY

Software Developer with hands-on experience designing and delivering full-stack web applications using Angular, Node.js, Express.js, and MongoDB/MySQL. Skilled in building scalable backend systems, secure REST APIs, and responsive frontend interfaces for production environments. Experienced in integrating AI capabilities including LLM-powered features, smart automation, and multilingual user experiences. Strong foundation in secure engineering practices including OAuth 2.0, JWT, role-based access control, and data protection. Proficient in Dockerized deployments and CI/CD-oriented workflows, with a consistent focus on performance optimization and reliability. Adept at collaborating with cross-functional teams to convert business requirements into maintainable, high-impact software solutions.

## EXPERIENCE

### Software Developer

Jan 2025 - Present

TechGroot Consultancy Services, Ahmedabad, India

- Engineered and maintained modular full-stack features across Angular frontend and Node.js backend services to support scalable business workflows.
- Developed and integrated RESTful APIs with structured validation, authentication, and role-based authorization to improve application security and data integrity.
- Optimized application performance through reusable component architecture, API response tuning, and frontend rendering improvements to reduce latency and improve user experience.
- Collaborated with product, QA, and design teams across requirement analysis, implementation, testing, deployment, and post-release enhancements.
- Strengthened maintainability through code standardization, iterative refactoring, and development lifecycle best practices.

## PROJECTS

### PingMe - AI-Powered Real-Time Chat Application

- Architected an event-driven real-time communication platform using Angular, Node.js, Express.js, MongoDB, and Socket.IO for low-latency bi-directional messaging.
- Integrated AI-driven smart replies, chat summarization, and multilingual translation to improve productivity and accessibility for end users.
- Implemented OAuth 2.0 and JWT-based authentication with protected routes and secure session handling to enforce access control and data privacy.
- Designed modular backend services and scalable communication flows to support concurrent users and future feature expansion.

### Resource Augmentation Platform - HR Management System

- Developed a full-stack HR platform for onboarding, profile lifecycle management, leave workflows, and administrative process automation.
- Built secure REST APIs and role-based access controls using Angular, Node.js, Express.js, and MySQL to enforce permission boundaries across modules.
- Structured relational data models and service layers to ensure data consistency, auditability, and reliable enterprise-grade operations.
- Improved operational efficiency by digitizing manual HR tasks into streamlined, scalable, and maintainable application workflows.

### FairShare - Expense Management Application

- Built a responsive expense-sharing application with a scalable full-stack architecture for group budgeting, balance tracking, and settlement visibility.
- Implemented robust frontend state handling and clear interaction flows for complex transaction scenarios and improved usability.
- Developed secure API interactions and authentication workflows to strengthen reliability, trust, and consistency in financial data handling.
- Designed the codebase for extensibility to support growth in user load and future feature additions in real-world usage.

## EDUCATION

### Bachelor of Engineering in Computer Science

Lok Jagruti Kendra University | Expected Graduation: June 2026 | Grade: (8.45/10)

## TECHNICAL SKILLS

**Development Stack:** MEAN Stack (MongoDB, Express.js, Angular, Node.js), Full-Stack Web Development

**Programming Languages:** JavaScript, Python

**AI & Generative AI:** Generative AI (LLMs), LangChain, Prompt Engineering, RAG Pipelines

**Tools & Technologies:** REST APIs, JWT Authentication, OAuth 2.0, RBAC, Git, Socket.IO

**Cloud & DevOps:** AWS, Docker, CI/CD

## CERTIFICATIONS

- Angular - The Complete Guide (2025 Edition) - Udemy
- Ultimate AWS Certified Cloud Practitioner CLF-C02 - Udemy
- Building Generative AI-Powered Applications with Python - Coursera
- Machine Learning with Python - Coursera