

Farhan Khan

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EDUCATION

B.Tech in Artificial Intelligence and Machine Learning	2024 - 2028
<i>Jayaprakash Narayan College of Engineering (Autonomous), Affiliated to JNTUH</i>	<i>Mahabubnagar, India</i>
Full Stack Web Engineering Bootcamp	Jan 2025 - 2026
<i>The Hacking School (cs.code.in)</i>	<i>MERN Stack, System Design, Backend Engineering</i>

PROJECTS

- Personal AI Voice Agent** Node.js, Express.js, Twilio, Deepgram, Groq, Telegram Bot API
- Built an AI voice agent that autonomously handles recruiter calls, answers questions about skills and experience using resume as LLM context, and notifies via Telegram when a caller wants to schedule a meeting.
 - Integrated Deepgram STT and TTS for real-time speech-to-text and text-to-speech conversion, and Groq (Llama 3.3 70B) for natural language understanding and tool calling.
 - Implemented tool calling with Groq to extract structured caller details (name, company, contact, location) from natural conversation and trigger Telegram notifications automatically.
 - Handled Twilio webhook orchestration for incoming calls, audio recording fetch, response playback, and graceful call termination.
- csGPT – Full Stack AI Chat Application** | [GitHub-Repo](#) | [Live Demo](#) ReactJS, Node.js, Express.js, MongoDB, JWT, TailwindCSS, Nginx, CertBot
- Built a full-stack AI-powered chat application that integrates a locally hosted large language model (LLM) using Ollama into a real-world web application. It provides users with a seamless, real-time chat interface where they can ask questions and receive intelligent, context-aware responses, without relying on external paid AI APIs.
 - The system is designed to demonstrate how open-source LLMs can be embedded into production-grade web applications, making AI accessible, private, and cost-effective.
- csBank – Full Stack Banking Application (Team Project)** | [GitHub-Repo](#) Node.js, Express.js, MongoDB, JWT, Bootstrap
- Collaboratively developed a full-stack banking web application as part of bootcamp training, supporting user registration, authentication, deposits, withdrawals, and fund transfers.
 - Designed & implemented RESTful APIs using Express.js with input validation (express-validator) and secure password hashing.
 - Implemented JWT-based authentication and protected routes with environment configuration using dotenv.
 - Designed MongoDB schemas using Mongoose for user accounts and transaction data.
 - Integrated Twilio and Resend APIs for communication features and tested endpoints using Postman.
- ShopKart – Full Stack E-Commerce Platform** Node.js, Express.js, MongoDB, React.js, Bootstrap, Cloudinary, Razorpay, JWT
- Built a full-stack e-commerce platform with JWT authentication, role-based access control, and email/phone verification using Resend and Twilio.
 - Implemented product management features including Cloudinary image uploads, text search, category/subcategory filtering, and pagination.
 - Designed Cart and Order systems with stock management, order status pipeline, and soft delete functionality.
 - Integrated Razorpay payment gateway for secure payment confirmation.
 - Developed a responsive React frontend with dynamic category navigation, product filtering, and protected routes.
- 100DaysOfCodingChallenge Platform** | [GitHub-Repo](#) | [Live Demo](#) ReactJS, Node.js, Express.js, Bash
- Developed a full-stack Platform, focused on helping users stay consistent with daily coding through structured tracking and GitHub Integration
 - Built and integrated an online code execution system that allows users to write, compile and run code across multiple programming languages in real time.
 - Designed a responsive code editor interface with dynamic input/output handling, improving usability for coding practice and debugging workflows.
 - Structured the platform to support a 100 Days Of Coding Challenge workflow, enabling consistent practice through an interactive browser-based environment

Private Git Server (Self-Hosted)

Linux, Git, SSH

- Built and deployed a self-hosted Git server for secure code backup and version control management
- Configured SSH authentication and repository access control.
- Implemented Linux-based server configuration and basic networking setup.

System Monitoring Tool

ReactJS, Node.js, Express.js, React CoreUI

- Developed a monitoring tool to track CPU, memory, disk usage, and active processes.
- Integrated React CoreUI components to build interactive pie charts and graphs for visualizing system metrics like CPU and memory usage
- Designing an alert system for performance benchmarks and server failures.

TECHNICAL SKILLS

Languages: JavaScript (ES6+), Python, Bash

Frontend Engineering: React.js, React CoreUI, HTML5, CSS3, Bootstrap, TailwindCSS, Responsive UI Development

Backend Engineering: Node.js, Express.js, Puppeteer, REST APIs, Swagger/OpenAPI Documentation, JWT Authentication, Session-based Authentication, Middleware Architecture, Twilio SDK, Razorpay Integration

Databases & Caching: MongoDB, MySQL, Redis, Mongoose ODM, Data Modeling

AI Engineering: LLM Integration, Webhook Integration, AI Agents, Tool Calling, Prompt Engineering, RAG (Retrieval Augmented Generation), Ollama, Open WebUI, Deepgram

System Design & Architecture: Data Structures & Algorithms, MVC Architecture, RESTful API Design, System Design Basics, Object-Oriented Programming (OOP), Background Jobs, Cron Jobs, Error Handling

DevOps & Deployment: Docker, GitHub Actions, CI/CD Pipelines, Linux, Nginx, PM2, Certbot, Cloudinary, Cloudflare Workers, AWS, DigitalOcean

Security: JWT Authentication, Session-based Authentication, GitHub OAuth, Role-Based Access Control (RBAC), Input Validation

Testing & Debugging: Jest, Postman, API Testing, Logging, Production Debugging

Tools & Workflow: Git, GitHub, VS Code, Cursor IDE, Linux CLI, Stitch by Google

CERTIFICATIONS

Full Stack Web Engineering Bootcamp – The Hacking School