

# MOHAMMED USMANI

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## EDUCATION

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**B.E. IN COMPUTER SCIENCE (AIML)** | Viva Institute of Technology | CGPA: 8.0 | Exp. 2026  
**DIPLOMA IN ENGINEERING** | Pravin Patil Polytechnic | **81.33%** | 2023

## TECHNICAL SKILLS

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**AI & Machine Learning:** Python, LangChain, LangGraph, AGNO Agent Framework, RAG Pipelines, LLM Integration (Gemini/OpenAI), Computer Vision (OpenCV/Mediapipe), ChromaDB.

**Languages:** Python, TypeScript, JavaScript, SQL.

**Frontend & UI:** Next.js 15, React.js, TailwindCSS, Zustand, TanStack Query, SSR/SSG, Shadcn/UI, Chakra UI.

**Backend & Database:** FastAPI, NestJS, Node.js, PostgreSQL (Vector), Supabase, Firebase, Redis, MongoDB, Neo4j.

**DevOps & Tools:** Docker, Nginx, Git, Linux, CI/CD, Postman, Jest.

## EXPERIENCE

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### FREELANCE FULL-STACK DEVELOPER | REMOTE | JAN 2025 – DEC 2025

- Architected scalable backend systems using NestJS and PostgreSQL, implementing Role-Based Access Control (RBAC) and secure JWT authentication for multi-tenant applications.
- Engineered advanced security features including sensitivity-based rate limiting and session activity tracking (via Cron jobs) to prevent abuse and manage user lifecycles.
- Deployed applications using Docker containers and Nginx as a reverse proxy (SSL termination, health checks), ensuring production reliability and seamless CI/CD integration.
- Optimized high-traffic endpoints by implementing Redis caching, significantly reducing database load and ensuring sub-millisecond response times for frequently accessed data.

### DATA SCIENCE INTERN | YBI FOUNDATION | REMOTE | JUN 2024 – JUL 2024

- Developed an Amazon recommendation system using Python (Pandas/Scikit-learn), implementing collaborative filtering (SVD) and content-based filtering (TF-IDF/K-Means) to personalize user suggestions.

## UNIVERSITY PROJECTS

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### CITY FIX - CIVIC ISSUE REPORTING SYSTEM | NODE.JS, EXPRESS, MONGODB, React Native, Firebase Auth

- Designed a RESTful backend for issue lifecycle tracking (SDG 11), utilizing **Prisma ORM** for complex relationship modeling and Firebase Auth for secure user identity & React Native for Android application.
- Implemented location-based services using **MongoDB geospatial queries** and deployed the microservice architecture on Railway with strict environment-based configuration management.
- **Github:** [github.com/Sumeet-2023/CityFix](https://github.com/Sumeet-2023/CityFix)

### BROWSER GAMING PLATFORM (CMS + ANALYTICS + ADS) | NEXT.JS, SUPABASE, TYPESCRIPT

- Engineered an automated **ETL pipeline** to ingest and normalize **3,000+ games** from external APIs, reducing content onboarding time by 90%.
- Developed a secure Admin CMS using **RBAC Middleware** and **Row Level Security (RLS)** to manage content lifecycle (Soft Deletes) and user permissions.
- Built a dynamic script injection engine to manage AdSense/Analytics server-side, optimizing **Core Web Vitals** and enabling updates without redeployment.
- **Live Link:** <https://game.mohammedusmani.me/> | **Github:** [github.com/Mohammed6903/GameWeb](https://github.com/Mohammed6903/GameWeb)

## ACHIEVEMENTS

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- **3rd Prize, GNEC International Hackathon – Global NGO Executive Community (Aug 2024)**
- **3rd Prize, Codeathon – Vidyavardhini College of Engineering (Jun 2024)**
- **Top 17 (National), AI For Good Hackathon – Blend360 (Jun 2024)**