

Muhammad Anees

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WORK EXPERIENCE

SCAYLAR TECHNOLOGIES | SOFTWARE ENGINEER

Pakistan | Jun 2024 – Present

- Refactored an AI recruitment platform (**Talent1**) with **Next.js** and **Express**, reducing API response times by 45% and integrating vector-embedding semantic search.
- Architected Rewiz, a production-grade SaaS marketplace for architectural visualization using Next.js 15, Node.js, and MongoDB, featuring multi-role access control, a Stripe/Wise dual-payment pipeline with automated cron sweeps, an in-browser canvas annotation layer (react-konva), real-time Socket.io/Firebase chat, and a fully localized 4-language interface.
- Developed a franchise CRM and customer dispatch platform (**Bloomin Blinds**) using **Next.js** and **Django REST** to manage territory routing, corporate analytics, and real-time appointment bookings. Integrated **Stripe OAuth** for split-payment processing across individual franchise locations and resolved high-concurrency booking conflicts by 80% using **Redis** distributed locks.
- Developed a franchise booking CRM (**DonutNV**) with **Square OAuth**, optimizing scheduling APIs to achieve 70% faster response times using **Celery** and **Redis**.
- Architected an education portal featuring custom authentication, multi-role access control, and automated payroll workflows using **Next.js**, **Strapi**, and **PostgreSQL**.

PROJECTS

FORPANG

NEXT.JS 14, NESTJS, OPENAI, REDIS, WEBSOCKETS, POSTGRESQL

- Engineered a hybrid search engine combining keyword matching and semantic OpenAI vector embeddings via Reciprocal Rank Fusion (RRF) to optimize multilingual query relevance.
- Architected a secure multi-role system (User, Business, Admin) with JWT role guards, isolated dashboards, and an automated content moderation pipeline.
- Built an end-to-end e-commerce and scheduling workflow integrated with geolocation mapping, Redis-backed cart caching, and automated vendor payout logic.
- Developed a real-time bi-directional messaging platform using WebSockets to facilitate instant user-to-business consultations.
- Integrated localized KakaoTalk and email notification services to handle transactional events and maximize user engagement in the South Korean market.

NEURODESK

NEXT.JS, NODE.JS, OPENAI, GEMINI, CHROMA CLOUD, MONGODB

- Developed a full-stack RAG platform enabling users to seamlessly upload extensive PDF documentation and interact through contextual AI-driven chat.
- Implemented automated document parsing, token-aware chunking, and OpenAI embeddings connected to Chroma Cloud vector storage for low-latency semantic search.
- Orchestrated multi-model backend processing using GPT-4o and Gemini while maintaining stateful conversation history via MongoDB database persistence.

PREPWISE

NEXT.JS, VERCEL, LLMs, WEB APIs, TAILWIND CSS

- Developed an AI-driven responsive web application focused on technical mock interview generation, rendering dynamically using Next.js and Vercel.
- Implemented resume parsing and targeted job description matching algorithms to automatically generate relevant, hyper-personalized interview questions.
- Built an analytics monitoring system that tracks complete practice history, logs session metrics, and scores answers to output structured user progress feedback.

EDUCATION

BSc. Computer Science

UNIVERSITY OF ENGINEERING AND TECHNOLOGY LAHORE

CGPA: 3.207 / 4.0 | Oct 2020 - May 2024

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, C++, SQL

Frontend: Next.js, React, Tailwind CSS, Sass, Material UI, Shadcn, Radix UI, Framer Motion

Backend & AI: NestJS, Node.js, Express.js, Django REST, Celery, LangChain, OpenAI, Strapi CMS

Databases & Caching: PostgreSQL, MySQL, MongoDB, Redis, TypeORM, Mongoose

Payments & Infrastructure: Stripe, Wise, Square, AWS, Vercel, Railway, Render, Twilio

Tools & Version Control: Git, GitHub, Cursor, Claude, Husky, Playwright

SOFT SKILLS

Core Competencies: Communication, Teamwork & Collaboration, Problem-Solving, Critical Thinking

INTERESTS

Core Focus: AI Agents, Blockchain, Cloud Computing