WALEED AHMAD

FULL STACK DEVELOPER & ARCHITECT

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PROFILE SUMMARY

Backend-focused Full Stack Architect with 2+ years of hands-on experience engineering production-scale applications across the full stack. Proficient in designing scalable backend architectures using Node.js, NestJS, Python, FastAPI, and PostgreSQL, with modern frontend frameworks including Next.js 16, React, React Native (Expo), and TypeScript. Experienced with microservices architecture (RabbitMQ, Redis), containerized deployments (Docker, Dokploy), AI/LLM integrations via LangGraph, and DevOps pipelines (GitHub Actions, Nginx, Vercel). Proven track record of delivering enterprise CMS platforms, real-time mobile applications, and AI-powered APIs with 99.9% uptime. Committed to clean, testable code and aligning technical architecture with business objectives.

TECHNICAL SKILLS

Languages: JavaScript (ES6+), TypeScript, Python, Go, SQL, Bash
Frontend & Mobile: Next.js 16, React, React Native (Expo), Tailwind CSS, Three.js, Framer Motion
Backend & Architecture: Node.js, NestJS, FastAPI, Django, Express.js, LangGraph, GraphQL
Databases & ORM: PostgreSQL, MySQL, MongoDB, Prisma ORM, Drizzle ORM
DevOps & Cloud: Docker, Dokploy, AWS, GitHub Actions, Nginx, Vercel, Linux (Arch)
AI & ML: LangGraph (LLM Orchestration), OpenAI API, Whisper AI, TensorFlow, Keras

PROFESSIONAL EXPERIENCE

Full Stack Developer Intern (Lead) | *Premier Choice International* Oct 2025 – Jun 2026

- Architected and led development of a proprietary Real Estate CMS using Node.js, React, and PostgreSQL, handling complex inventory logic, sales pipelines, and automated workflows for enterprise clients.
- Engineered 'Sign App' — an internal Node.js microservice automating corporate email signature generation across 50+ employees, reducing manual configuration by 95%.
- Implemented Role-Based Access Control (RBAC) with granular permission layers and complex relational data modeling for asset inventory management.
- Deployed and maintained the CMS platform at cms.premierchoiceint.online serving production traffic with zero downtime.

Software Development Intern | *Firefly Tech Solutions* Jan 2025 – Jun 2025

- Optimized legacy codebases by refactoring critical modules, reducing page load times and improving long-term maintainability across the application stack.
- Collaborated on debugging and resolving critical web application issues, ensuring 99% uptime and reliable production performance.
- Participated in code reviews and agile sprint cycles, gaining proficiency in version control workflows and team-based software delivery.

Technical Instructor & Mentor | *Freelance / Community* 2024 – Present

- Delivered professional hands-on training covering the MERN stack, Next.js, and modern backend architectures to aspiring developers.
- Mentored peers in debugging complex React state management, API integration patterns, and production deployment strategies.

Open Source Scholar | *The Odin Project* Jan 2024 – Dec 2024

- Completed a rigorous, self-paced Full Stack curriculum at age 14, mastering JavaScript fundamentals, data structures, and web development foundations.
- Built 15+ projects including algorithm implementations (BST, Linked Lists, Knight's Travails), full-stack applications, and game engines.

FEATURED PROJECTS

Premier Choice CMS | Node.js, React, PostgreSQL, Docker *[In Production]*

- Designed and engineered a monolithic enterprise CMS for real estate asset management, handling complex inventory logic, sales data pipelines, and automated business workflows.
- Implemented multi-layered RBAC, real-time data synchronization, and containerized deployment achieving 99.9% system uptime across production environments.
- Live at cms.premierchoiceint.online — serving as the core operational platform for Premier Choice International.

Quranic Transformation — EdTech LMS | Next.js, TypeScript, Tailwind CSS, Prisma *[Beta]*

- Architected a full-stack Learning Management System with user progress tracking, multimedia content delivery, and session persistence via Prisma ORM.
- Built responsive, accessible UI with server-side rendering (Next.js) and type-safe database schemas, deployed on Vercel with CI/CD integration.
- Live at quranic-transformation.vercel.app.

SaleMate — Retail Sales Management App | Node.js, TypeScript, Prisma, React Native (Expo) *[In Development]*

- Engineering a production-scale cross-platform sales management application with real-time inventory tracking, offline-first sync, and type-safe API layer.
- Architected using Prisma ORM for database modeling, TypeScript for end-to-end type safety, and React Native (Expo) for iOS/Android delivery.

Podcast API | NestJS, TypeScript, Node.js *[Completed]*

- Built a production-grade RESTful API using NestJS demonstrating mastery of modular architecture, dependency injection, guards, pipes, and interceptors.
- Implemented comprehensive input validation, error handling, and documentation following OpenAPI/Swagger standards.

AI Attorney Backend | Node.js, Express, AI Integration *[Live]*

- Engineered the secure backend API for a mobile legal assistant application, handling legal query processing, user authentication, and data encryption.
- Integrated AI capabilities for natural language legal query resolution, deployed to production at aiattorney.com.pk.

Chess Application | Go (Golang), CLI & REST *[Active]*

- Developed a high-performance chess engine and game server in Go with dual interface modes (CLI and REST API), showcasing systems-level programming proficiency.
- Implemented complete chess rules engine including move validation, check/checkmate detection, and game state management.

Writer's Haven | Next.js, Prisma, Tailwind CSS *[Development]*

- Building a minimalist distraction-free writing platform with real-time autosave, rich text editing, and Prisma-backed user accounts and document storage.
- Deployed at notes.shadowscripter.online with responsive design optimized for extended writing sessions.

Speech to Text API | Node.js, Python, Whisper AI, FFmpeg *[Completed]*

- Developed a privacy-first speech-to-text transcription service powered by OpenAI Whisper, processing audio files via FFmpeg pipelines.
- Built asynchronous job processing architecture for handling large audio files with efficient memory management.

EDUCATION

O Levels — Ongoing

Expected Completion: 2026

CERTIFICATIONS

- Google Generative AI Badge — Google Inc.
- Full Stack Web Development — The Odin Project