

MOHAMMED HAYDAR

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Professional Profile

Fullstack Software Engineer with 5+ years of experience delivering scalable web applications and high-performance systems using TypeScript, React, Next.js, and Node.js. Skilled in building B2B, and B2C SaaS platforms, real-time applications, and integrating LLMs like ChatGPT. Experienced in AI & LLM integration, agile collaboration, and cloud deployment using AWS and Docker.

Core Competencies

- Frontend: React Framework, Next.js Applications, Vue.js, Tailwind CSS, TypeScript Expertise
- Backend: Node.js Backend, Express.js, RESTful API Design, WebSocket Integration
- Databases: PostgreSQL (Drizzle ORM), MongoDB (Prisma ORM), MySQL (Hibernate ORM), Database Desig
- Auth & Security: JWT Authentication, OAuth 2.0, Auth.js, Role-Based Access
- DevOps: Docker Containers, CI/CD Pipelines, Cloud Deployment AWS, DigitalOcean, VPS Hosting
- Best Practices: Agile Collaboration, Test-Driven Development (TDD), Clean Code Principles, System Design
- AI/ML Integration: ChatGPT APIs, LLM Integration, Voice Recognition Systems

Work Experience

Real-Time Voice App with Node.js + Next.js (John Al Shiekh AI) [Live Site](#) | [Github](#) Apr 2025 – May 2025

- Achieved 100+ active users, by architecting and deploying a cloud-native Next.js application with real-time voice interaction for English proficiency testing.
- Integrated ChatGPT APIs and third party voice agents to enable real-time English proficiency conversations, leveraging LLM integration for dynamic user interaction.
- Enhanced average response latency under 200ms and 95%+ speech recognition accuracy in controlled tests.

Multi-Tenant Ordering Platform with Payments and WebSockets [Live Site](#) | [Github](#) Dec 2023 – Apr 2024

- Built a B2B SaaS Platforms allowing transactional investment platform with Next.js & React.js, handling eCommerce-style flows (payments, account management).
- Integrated payment processing logic with Stripe's secure APIs, achieving PCI DSS compliance.
- Created vendor management microservices to support multi-tenant scalability.

Modular CRM with Role-Based Access + Optimized REST APIs (Node.js) [Live Site](#) | [Github](#) Sep 2023 – Jan 2024

- Integrated with modular backend architecture fortask tracking and user management.
- Designed optimized RESTful APIs with 30% improvement in performance; enforced secure user roles through modular role-based access control.
- Integrated role-based access control using Auth.js to which resulted in a secure user operations.

Shms Agricultural Investing Platform [Live Site](#) | [Github](#) Sep 2022 – Dec 2023

- Built a transactional investment platform with Next.js, React.js, helping facilitate over £500K in agricultural investments.
- Secured 20+ investor accounts using Auth.js with role-based access, migrating from Postgres to MongoDB for more flexible, document-based data handling.

Sudan Academic Journal for Research and Science [Live Site](#) | [Github](#) Sep 2016 – May 2021

- Built a performant research journal platform with custom search and admin tools, using PHP, JavaScript, and Bootstrap, which is hosted in a configured VPS for optimal performance
- Optimised the platform for performance on a configured VPS

Education

First Class Honours BSc of Science in Information Technology, Middlesex University - London, UK.
Relevant Modules: Advanced Web Development with Big Data (Java, Hibernate, MySQL, AWS Lambda, DynamoDB, SageMaker, AND Web-Based Mobile App Development (Vue.js, Mobile PWAs, AWS Elastic Beanstalk)