HASSAN MOHAMMED BARAFAH

Full-Stack & AI Developer

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PROFESSIONAL SUMMARY

Highly motivated Full-Stack & AI Developer holding a Bachelor's degree in Information Technology with Honors (GPA 3.8/4.0) and over four years of professional development experience. Specialized in building secure, maintainable, and scalable applications using Next.js, React, Node.js, NestJS, Laravel, and cutting-edge AI technologies. Demonstrated expertise in delivering end-to-end digital solutions, integrating large language models, and developing production-grade systems that align technical excellence with business objectives.

TECHNICAL SKILLS

Programming Languages: JavaScript (ES6+), TypeScript, PHP, Python, Dart, SQL

Frontend Technologies: React.js, Next.js (14/15/16), Vue.js, Tailwind CSS (v4), HTML5, CSS3, shadcn/ui, Radix UI, Framer Motion, GSAP, Three.js, Livewire, Alpine.js

Backend & APIs: Node.js, Express.js, NestJS, Laravel 11, RESTful APIs, GraphQL, WebSockets (Socket.io), FastAPI Basics

Databases & Caching: PostgreSQL, MySQL, MongoDB, Redis, SQLite, Firebase Firestore

Cloud & DevOps: AWS (EC2/S3), Docker, CI/CD (GitHub Actions), Nginx, PM2, Vercel, Netlify

Security & Practices: JWT, OAuth 2.0, RBAC, OWASP Top 10, Penetration Testing, Secure Coding, Mongoose, Prisma ORM, Eloquent, Zustand, Redux, Stripe Integration

PROFESSIONAL EXPERIENCE

Freelance Full-Stack & AI Developer **2023 – Present**

Remote / Projects

- Engineered and shipped 10+ custom web systems and platforms for various industries, managing the full development lifecycle from client requirements analysis through to cloud deployment and post-launch maintenance.
- Designed and implemented robust backend structures utilizing Laravel 11, Node.js, and Express, optimizing database query performance and indexing in PostgreSQL and MySQL to reduce response times by 30%.
- Integrated advanced Generative AI models (OpenAI GPT-4o, Google Gemini API) and custom NLP workflows into production applications, enhancing automation and user interaction.
- Standardized application security across all client systems by integrating JSON Web Tokens (JWT), Role-Based Access Control (RBAC), input validation, rate limiting, and defensive coding matching OWASP guidelines.
- Leveraged cloud environments (AWS, Vercel, Netlify) and CI/CD pipelines to automate deployment cycles, reducing manual deployment efforts and system downtime.

SELECTED PROJECTS

Cloud ERP SaaS System (Multi-Tenant) [View] 2025 – 2026

Next.js 16 (App Router), TypeScript, Tailwind CSS v4, PostgreSQL, Prisma, Redis, BullMQ, NextAuth.js, Stripe, Docker

Developed a multi-tenant enterprise resource planning (ERP) software supporting RTL orientation, interactive KPI dashboards, sales pipeline management, multi-warehouse tracking, and a double-entry accounting journal. Engineered complete data isolation at both database (PostgreSQL via Prisma ORM) and application levels using company-specific keys.

Multi-Tenant Webhook & API Automation Cloud Platform [View] 2025 – 2026

NestJS, Next.js (App Router), TypeScript, PostgreSQL, Prisma ORM, Redis, BullMQ, Tailwind CSS, Docker, Nginx, OpenAPI/Swagger

Architected and developed a full-featured Multi-Tenant SaaS platform for automating Webhooks, REST APIs, and external integrations (Zapier/Make alternative). Built a Sandboxed AST Rule Engine, multi-channel workflow executor (HTTP, Telegram, Email), high-load job processing via BullMQ & Redis with DLQ, enterprise AES-256-GCM encryption, SSRF protection, HMAC-SHA256 verification, and a real-time bilingual dashboard (RTL/LTR) with Audit Logs.

Yemen Shop SaaS (Multi-Tenant E-Commerce Platform) [View] 2025 – 2026

Laravel 11, TypeScript, PostgreSQL, Hono Framework, Cloudflare Workers/D1, Stripe, Tailwind CSS, Vite

Architected a full-stack multi-tenant e-commerce SaaS platform enabling merchants to launch and customize independent online storefronts under sub-paths (/store/{slug}). Built a responsive public storefront, Merchant Dashboard, and Platform Admin Panel with complete tenant data isolation and Stripe integration.

Darajatak Alayna (Your Bike is on Us) [View] 2024

Node.js, Express.js, PostgreSQL, Supabase, HTML5, CSS3, Tailwind CSS, Vanilla JS, JWT, bcrypt

Developed an e-commerce platform specialized in showcasing and marketing motorcycles in Yemen, complete with an admin dashboard for handling listings and view statistics.

Integrated E-Learning Platform (EduPlatform) [View] 2024

React 18, TypeScript, Tailwind CSS, Supabase, PostgreSQL, Gemini AI, Stripe

Designed and developed a secure Learning Management System (LMS) with granular RBAC for 4 user roles: Student, Teacher, Supervisor, and Administrator. Integrated gamification mechanics (XP/badges), dynamic automated PDF certificate generation, and Gemini AI API for personalized academic recommendations.

AI Executive Board [View] 2024

Next.js 14, NestJS, PostgreSQL, Redis, BullMQ, OpenAI GPT-4o, WebSockets

Architected an advisory application simulating an executive board composed of 20+ specialized AI personas (CEO, CTO, CFO, CMO) for strategic business evaluations. Integrated real-time bidirectional debates utilizing WebSockets and engineered automated SWOT assessments and 90-day actionable roadmap generation.

OBSIDIAN Luxury E-Commerce [View] 2023

React (Vite), TypeScript, Tailwind CSS, shadcn/ui, Three.js, React Three Fiber (R3F), Supabase, Stripe

Built an immersive luxury e-commerce platform incorporating interactive 3D web graphics, scroll animations, and customized user actions. Integrated Stripe payment gateways, wishlists, and a dynamic order-tracking system.

Employee Performance Review System [View] 2024 – 2025

Laravel 11, Vue.js, MySQL, Laravel Breeze, Tailwind CSS

Developed a comprehensive performance appraisal application unifying HR, managers, and employees under a structured role hierarchy. Designed dynamic evaluation forms, custom dashboards, and automated notifications for process workflows.

Firebase Multi-Env Manager v2.0.0 [View] 2024

Dart CLI, Firebase, GitHub Actions, Flutter

Developed an automated command-line interface (CLI) tool written in Dart to switch Firebase configuration files and rewrite application IDs / bundle IDs across Android, iOS, Web, macOS, and Windows.

Real-time Chat Platform [View] 2024

Node.js, Socket.io, MongoDB, Express.js, Tailwind CSS, Vanilla JS

Built a real-time messaging application simulating WhatsApp, featuring voice messaging with an integrated player, instant online/offline status, and MongoDB persistence.

Crypto UI [View] 2025

Next.js 15, TypeScript, Tailwind v4, Framer Motion, NextAuth.js

Created a modern dashboard template for Web3 and cryptocurrency platforms, displaying real-time coin price tracking, smooth UI animations, and modular authentication pages.

Smart School Management System [View] 2024 – 2025

Laravel 11, PHP 8.2, MySQL, Spatie, Livewire 3, Alpine.js, Tailwind v4

Developed an administrative portal for digitalizing schools, linking administration, teachers, students, and parents with live statistics, grade tracking, and automatic PDF certificate generation.

Project Management Platform (PMP) [View] 2024

React 18, TypeScript, Tailwind v4, Framer Motion, PostgreSQL, Express, Offline Sync

Engineered a task management application featuring drag-and-drop Kanban boards, team collaboration roles, context-aware comments, and Progressive Web App (PWA) support with offline sync.

Nar Store [View] 2023

HTML5, Tailwind CSS, Vanilla JS, LocalStorage

Created a modern e-commerce storefront for selling digital gift cards, featuring automated LocalStorage cart management and direct checkout flows.

MedAI Smart Medical Advisor [View] 2024

React 19, TypeScript, Tailwind CSS v4, shadcn/ui, Node.js, MySQL, Framer Motion

Engineered an AI-driven health consultation application delivering initial symptom analysis and interactive wellness advice. Created integrated tracking calculators (BMI, BMR, water intake) and an interactive dashboard utilizing Recharts.

EDUCATION

Bachelor of Information Technology **2021 – 2025**

Rayan University (Yemen) | GPA: 3.8 / 4.0 (Excellent with Honors / مرتبة الشرف الأولى)

CERTIFICATIONS

- **FreeCodeCamp (2,700+ Hours):** Responsive Web Design, Front-End Development Libraries, Back-End Development and APIs, Scientific Computing with Python, Data Visualization, JS Algorithms & Data Structures.
- **Edraak:** UI/UX Principles & Design, Microsoft SQL Server Databases, ICDL, Introduction to AI, Introduction to Cybersecurity.
- **Specialized Training (SASS & EVET):** Ethical Hacking (50 hrs), Penetration Testing with Metasploit, Cyber Security Basics, Blog Website Design.