

# HASSAN MOHAMMED BARAFAH

Full Stack Software Engineer | AI Developer

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## PROFESSIONAL SUMMARY

Results-driven Full Stack Software Engineer with 3+ years of hands-on experience architecting, developing, and deploying 15+ production-grade web applications serving 10,000+ active users. Proven expertise in building scalable, high-performance systems using modern tech stacks including React.js, Next.js, Node.js, Laravel, and cloud infrastructure (AWS). Specialized in developing AI-integrated applications, real-time communication systems, and enterprise-level management platforms. Strong foundation in optimizing application performance (95+ Lighthouse scores), reducing API response times by 40%, and implementing OWASP-compliant security. Honors graduate with 1,530+ hours of certified technical training.

## TECHNICAL SKILLS

Frontend	React.js, Next.js 15, Vue.js, Redux, Zustand, Tailwind CSS v4, TypeScript, PWA, Framer Motion
Backend & APIs	Node.js, Express.js, Laravel 11, Python (Flask/FastAPI), RESTful APIs, GraphQL, WebSocket, Socket.io
Databases	MySQL, PostgreSQL, MongoDB, Redis, Firebase Firestore, Prisma, Mongoose, Eloquent ORM
Cloud & DevOps	AWS (EC2, S3), Docker, CI/CD, Nginx, Vercel, Netlify, Git, GitHub Actions, Linux
AI & Security	OpenAI GPT API, NLP, Scikit-learn, OAuth 2.0, JWT, RBAC, OWASP Top 10, Penetration Testing

## PROFESSIONAL EXPERIENCE

Full Stack Web Developer (Freelancer)	January 2023 – Present
Remote	
<ul style="list-style-type: none"><li>Architected and deployed 15+ production-grade web applications serving 10,000+ active users across e-commerce, education, and digital services sectors.</li><li>Engineered responsive, pixel-perfect UI/UX interfaces using React.js, Next.js 15, and Tailwind CSS v4, achieving 95+ Lighthouse performance scores.</li><li>Built scalable RESTful APIs and microservices architecture using Node.js, Express.js, and Laravel, reducing API response time by 40%.</li><li>Designed and optimized high-performance database schemas in MySQL, PostgreSQL, and MongoDB, handling 100K+ daily queries efficiently.</li><li>Automated CI/CD pipelines and deployed applications on AWS (EC2, S3), Vercel, and Netlify, reducing deployment time by 60%.</li><li>Implemented JWT-based authentication and OAuth 2.0, securing applications with OWASP Top 10 best practices.</li><li>Developed real-time features using Socket.io and WebSockets, enabling instant messaging and live updates for 1,000+ concurrent users.</li><li>Applied Clean Code principles and Test-Driven Development (TDD), reducing bug reports by 50% and maintaining 95%+ code review approval rate.</li></ul>	

## KEY PROJECTS

Employee Performance Review System	Laravel, Vue.js, MySQL
<ul style="list-style-type: none"><li>Engineered enterprise-grade HR performance management platform connecting 500+ employees, managers, and HR teams with comprehensive RBAC system.</li><li>Automated performance evaluation workflows, reducing review cycle time by 70%, and designed normalized database schema handling 50K+ records.</li></ul>	
Real-Time Chat Application	Node.js, Socket.io, MongoDB
<ul style="list-style-type: none"><li>Built production-ready messaging platform supporting 1,000+ concurrent users with 99.9% uptime and sub-100ms latency using WebSocket architecture.</li><li>Deployed scalable infrastructure on AWS EC2 with Redis caching, handling 50K+ messages daily with voice recording and delivery status features.</li></ul>	
AI-Powered Medical Consultation Platform (MedAI)	React 19, TypeScript, Node.js
<ul style="list-style-type: none"><li>Built intelligent medical chatbot leveraging OpenAI GPT API, engineering NLP pipeline handling 1,000+ queries with 85% accuracy.</li><li>Optimized AI response time to under 3 seconds through efficient prompt engineering and caching, compliant with healthcare privacy standards.</li></ul>	
School Management System (Smart EduTech)	Laravel 11, Livewire 3, MySQL
<ul style="list-style-type: none"><li>Architected digitization platform for 2,000+ users, automating attendance and grading to reduce administrative workload by 65%.</li><li>Developed real-time dashboard with Livewire 3, eliminating page refreshes and improving UX by 80%.</li></ul>	
Project Management Platform (Trello Clone)	React 18, PostgreSQL, PWA
<ul style="list-style-type: none"><li>Engineered Kanban-style SaaS tool supporting 500+ teams with real-time collaboration for 50+ concurrent editors via WebSockets.</li><li>Developed offline-first Progressive Web App (PWA) and optimized PostgreSQL database for nested task dependencies.</li></ul>	

## EDUCATION

Bachelor of Information Technology (Honors)	2021 – April 2025
Alrayan University, Yemen   <b>GPA: 3.8/4.0</b>	

## CERTIFICATIONS & TRAINING (1,530+ HOURS)

- FreeCodeCamp (2,700+ hrs):** Responsive Web Design, Frontend Libraries, Backend APIs, Scientific Computing (Python), Data Visualization.
- Professional:** Ethical Hacking & Penetration Testing (SASS), Metasploit Framework (EVET), Microsoft SQL Server Admin (EDRAAK).
- Additional:** UI/UX Design Principles, AI Introduction, Cybersecurity Fundamentals, Computer Network Principles.