

MOHAMED ACHREF BEN ABDALLAH

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PROFESSIONAL SUMMARY

Innovative Full-Stack Engineer with 3+ years of experience in AI integration and web development. Led development of AI-powered features that increased user engagement by 40% and reduced operational costs by 30%. Proficient in RAG systems, LangGraph, and modern web technologies with a proven track record of delivering high-performance, scalable solutions across multiple industries.

TECHNICAL SKILLS

Frontend Development: HTML, SCSS, JavaScript, TypeScript, React, Next.js, .NET Blazor, Zustand, Zod, Tailwind CSS, ThreeJS, Framer Motion

Backend & Databases: Express.js, ASP.NET Core, Fast API, C#, Python, Encore.go, Golang, MySQL, PostgreSQL, PL/SQL, MongoDB

AI/ML: OpenAI, LangGraph, AI SDK, LlamaIndex,

Prompt Engineering, LLM Fine-tuning, Vector Databases

Cloud & DevOps: AWS Cloud, Azure, Azure DevOps, GitHub Actions, Docker, Docker Compose, CI/CD Pipelines

Testing: Jest, React Testing Library (RTL), Puppeteer, Unit Testing, Integration Testing, End-to-End Testing

Other: Git, Unity, VR Development, UI/UX Design, Figma, Design Patterns

CERTIFICATIONS

Microsoft: Azure AI Fundamentals (AI-900)	May 2024
Microsoft: Mixed reality digital twins with Azure Digital Twins & Unity	March 2024
Microsoft: Azure Fundamentals (AZ-900)	March 2024
Unity: VR Development by Unity Technologies	January 2024
Microsoft: Foundational C#	September 2023
Pluralsight: DevOps – The Big Picture	August 2023
Cal Arts: Graphic Design Fundamentals	September 2022
Udemy: A Path to Effective Communication	August 2023
Unity: Unity Essentials Pathway	July 2022

PROFESSIONAL EXPERIENCE

Software Engineer

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June 2024 - Present

Full-Stack Developer with AI Integration Focus

- Spearheaded development of RAG system using SQS, OpenAI and Pinecone, achieving 50% faster document processing.
- Engineered high-performance Next.js 14 interfaces with Tailwind CSS, achieving 90% Lighthouse score and reducing page load time from 3s to 1.5s
- Architected real-time analytics system using Google Analytics and Apex Charts, enabling data-driven decisions that increased user retention by 25%
- Optimized AWS cloud infrastructure by optimizing Lambda code, reducing monthly operational costs by 50% while maintaining 99.9% uptime
- Implemented WebSocket-based notification system, reducing average user response time.

Technologies: Next.js 14, React, TypeScript, TailwindCSS, AWS Cloud, OpenAI, LangGraph, AI SDK, Jest, RTL

Solutions Developer

Forvia/Faurecia (through Tessian Group)

January 2024 - June 2024

VR Development Specialist

- Developed industrial VR training modules using Unity Engine, achieving 90+ FPS and doubling employee satisfaction.
- Engineered custom VR interactions with haptic feedback, increasing user engagement by 50% and reducing training errors by 35%
- Automated Azure DevOps and Power BI reporting system, reducing reporting time from 5 minutes to 30 seconds for 100+ team members
- Optimized VR application performance, reducing load times from 45s to 30s and improving frame rate consistency by 20%

Technologies: C#, Unity Engine, Unity XR interaction TK, Python, Azure DevOps

Blazor Developer*Tessian Group*

December 2023

Web Application Developer

- Architected high-performance .NET Blazor application, achieving 95% Lighthouse accessibility score and reducing page load time from 4s to 2s
- Engineered comprehensive design system with reusable components, reducing development time by 35% and ensuring pixel-perfect UI consistency
- Implemented responsive layouts with Bootstrap 5, improving mobile conversion rate and reducing content layout shift.

*Technologies: C#, .NET 8, Blazor, Bootstrap5, JavaScript, CSS, Razor, EF Core, Docker***Full-Stack Developer***TSI*

June 2023 - September 2023

Inventory Management System Developer

- Developed QR-based inventory system, reducing login time for seasonal workers by 80% and decreasing authentication errors by 90%
- Built Angular-based management interface, improving administrative efficiency by 45% and reducing data entry errors by 60%
- Implemented barcode scanning functionality, reducing inventory errors by 60% and improving stock tracking accuracy by 75%

*Technologies: C#, ASP.NET Core, Angular, .NET Maui, EF Core, MS SQL***Creative Developer***Chilift*

May 2023 - June 2023

Frontend and UI/UX Specialist

- Developed high-converting landing page using React and Tailwind CSS, increasing conversion rate by 35% and reducing bounce rate by 40%
- Designed mobile app UI with 95% user satisfaction rating in usability testing and 40% faster task completion rates
- Implemented comprehensive testing suite, achieving 100% component test coverage and reducing bug reports by 60%

*Technologies: React, Tailwind CSS, Framer Motion, SCSS, Spline 3D, Jest, RTL***Web Developer***Ajico Group*

January 2023 - May 2023

Full-Stack Web Developer

- Developed event website with 10K+ visitors during the event period and 10% increase in attendee engagement
- Implemented real-time communication features and beautiful reporting UI, improving attendee satisfaction and reducing support tickets by 50%
- Created brand assets and guidelines, establishing consistent visual identity across 10+ marketing channels

*Technologies: React, Chakra UI, SCSS, Express.js, MySQL***Co-Founder & Game Developer***RedSpear*

March 2022 - June 2023

Game Developer

- Developed C# gameplay systems achieving 60 FPS on target platforms and reducing memory usage by 40%
- Implemented Python AI scripts, enhancing team productivity more than 50% by automating game development tasks
- Optimized game assets, reducing load times and improving overall performance by 25%

*Technologies: C#, Unity Engine, Figma, Python, Machine Learning, GPT-2, Git LFS***Junior Web Developer***CIN Group*

August 2022 - January 2023

Investment Platform Developer

- Developed secure investment platform with 99.9% uptime and zero security incidents.
- Implemented i18n internationalization, expanding market reach to 2 new countries and increasing user base by 200%
- Optimized database queries, reducing response time by 70% and improving concurrent user capacity.

*Technologies: React, Chakra UI, Framer Motion, i18n, Express.js, PostgreSQL, PL/PGSQL***Junior Web Developer***Smart Kokusai*

June 2022 - August 2022

Web Developer

- Developed React-based websites with engaging animations, increasing user engagement by 20%
- Created Express.js API with MySQL integration, improving data retrieval speed by 200% compared to manual methods.
- Designed UI/UX concepts and branding assets, establishing consistent visual identity

Technologies: React, Framer Motion, CSS Animations, Chakra UI, Express.js, MySQL, Figma, Adobe Creative Suite