

Mahmoud Hamed

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SUMMARY

Senior Backend Developer with 6+ years of experience, specializing in iGaming and gamification platforms. Proven expertise in building high-performance, scalable, and event-driven backend architectures using Node.js, GoLang, NestJS, and Azure Services. Primary contributor to a white-label iGaming platform, enabling operators to launch fully branded and localized casino experiences across multiple regions. I have architected and implemented backend systems that power modern online casinos — including game integrations, RNG-based game engines (e.g., slots, crash games), financial transactions, reward systems, and real-time player engagement features. Skilled in NestJS monorepos, microservices, and cloud-native solutions, with hands-on experience in monolith-to-microservices migration, real-time data synchronization, and multi-tenant design.

EXPERIENCE

SPLASH SOFTWARE, SENIOR SOFTWARE ENGINEER

Aug 2023 - Present

Led backend development for a white-label iGaming platform, supporting multiple branded clients with isolated configurations, themes, languages, and regulatory requirements. Designed and implemented game engines for slot machines, crash games, and other skill/luck-based titles using secure RNG logic. Integrated game outcomes with real-time bet settlement systems, bonus logic, and leaderboard updates. Architected the backend to support multi-operator, multi-region deployments with isolated settings and custom feature toggles. Built centralized services with dynamic tenant-based resolution for games, payments, promotions, and behavior. Supported custom branding, payout policies, regional content, and feature flags. Used Azure Service Bus, Event Hub, WebSockets (Azure web pubs), Redis, Kubernetes, and Azure Functions to orchestrate asynchronous workflows across services such as betting, promotions, and user activity tracking. Applied advanced patterns like event deduplication, out-of-order correction, retries, and circuit breaking to ensure fault-tolerance. Integrated Geo-IP services to enforce region-specific behavior, such as game availability, payment method restrictions, and bonus eligibility. Ensured compliance and optimized user experience for different jurisdictions. Developed a modular back office system for admins to manage and monitor Reports and real-time dashboards. Enabled role-based access control and secure audit trails for admin activities. Created dynamic systems for welcome bonuses, progress-based rewards, loss-based cashback, and multi-level referrals. Integrated multiple payment gateways based on client configuration and user region, supporting both fiat and crypto. Managed webhook flows, transaction verification, fraud detection, and KYC requirements using microservices and events.

ITFAQ, FULLSTACK SOFTWARE ENGINEER

May 2021 - Jun 2023

Led the refactoring and decomposition of a legacy monolith into scalable microservices, ensuring maintainability and clear separation of concerns. Day-to-day responsibilities included feature development, issue assessment and estimation, and code reviews to uphold high-quality standards. Managed database migration from Shopify to a custom e-commerce platform using MongoDB and TypeScript (Node.js). Developed Electron.js desktop applications communicating with plotter machines via HPGL protocol, handling IPC and processing modified SVG paths for precise cut and draw operations. Built and maintained event-driven systems, webhooks, and user/role management modules, ensuring security and robustness. Designed and implemented NestJS microservices for authentication, orders, and payment processing. Ensured team adherence to best practices (SOLID, TDD, DDD), clean architecture principles, and high-quality reusable code. Applied Domain-Driven Design (DDD) and clean architecture to focus development on business logic.

TATWEER LLC, WEB APPLICATION ENGINEER

Feb 2019 - May 2021

Designing and implementing a live data synchronization solution between CRM systems. Maintain and build new services & features for the System with more than 12 million users in Syria and UAE. Full stack development in React and Laravel. Working with Micro services and asynchronous communication patterns. Apply best practices in our projects (SOLID, SEO) using TDD and DDD. Maintaining production systems and handling incidents.

EDUCATION

Tishreen University

BACHELOR DEGREE IN INFORMATION ENGINEERING

SKILLS

Node.js • Go (Programming Language) • NestJS • MongoDB • Microsoft Azure • Git • Microservices • RabbitMQ • Apache Kafka