Mahmoud Hamed

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ABOUT ME

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**.
I hold a **Bachelor's degree in Computer Software Engineering** from **Tishreen University** and have delivered multiple international projects across **UAE, Belgium, Germany, Liechtenstein, Turkey, France, Switzerland, and Italy**, with a strong focus on performance, reliability, and region-specific compliance.

WORK EXPERIENCE

🏢 **SPLASH SOFTWARE** – DUBAI, UNITED ARAB EMIRATES

SENIOR SOFTWARE ENGINEER – 08/05/2023 – CURRENT

iGaming & Gamification (Primary Responsibility)
- 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.

White-Label Platform Architecture
- 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.

Event-Driven Infrastructure Using Azure
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.

Geo-IP Based Logic & Region Adaptation
- Integrated **Geo-IP services** to enforce **region-specific behavior**, such as:
  - Game availability
  - Payment method restrictions
  - Bonus eligibility
- Ensured compliance and optimized user experience for different jurisdictions.

Admin Back Office & Operator Tools
- 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.

Reward Systems: Bonuses, Cashback, Referrals
- Created dynamic systems for:
  - **Welcome bonuses**
  - **Progress-based rewards**
  - **Loss-based cashback**

- **Multi-level referrals**
- Rewards and bonuses were configurable per tenant, with full support for time-based campaigns and usage limits.

Payment Handling & Provider Integration
- 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** – DUBAI, UNITED ARAB EMIRATES

FULLSTACK SOFTWARE ENGINEER – 20/05/2021 – 17/06/2023

Backend & Full-Stack Engineer | Node.js, NestJS, TypeScript, Go, MongoDB, Electron.js
- 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.
- Implemented **microservices communication** via message bus, RabbitMQ queues, and Socket.IO for real-time events.
- Built, maintained, and deployed **Docker images and containers** for scalable and consistent environments.
- Delivered projects following **XP, Lean, and Continuous Delivery practices**, enabling fast, reliable, and iterative releases.
- Developed backend components in **Go** for performance-critical microservices and API integrations.
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Stack:
Typescript - Nest.js - DockerFile - Docker - AWS - Nodejs - MongoDB -Git - Nats - GitHub - Data Structures - Rest apis - RabbitMQ - PostgresSql - GraphQL -RabbitMQ

⊞ **TATWEER LLC** – DAMASCUS, SYRIA

Business or Sector Information and communication

WEB APPLICATION ENGINEER – 25/02/2019 – 30/05/2021

- 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.
- PHP 8.
- React.js
- Software analysis.
- Scrum and Agile methodologies.
- No-SQL database (MongoDB).
- RESTful APIs using OpenAPI V3 specifications.
- ERP's development.
- JIRA + Confluence Agile systems.
- Git and Github to collaborate on codebases with other developers.

Stack:

Laravel, symphony - Nodejs Next.js - Mysql - MongoDB - Php - React.js - DockerFile - Docker - AWS - Scrum and Agile methodologies - GitHub

EDUCATION AND TRAINING

04/09/2015 – 01/07/2021 Latakia, Syria
BACHELOR DEGREE IN INFORMATION ENGINEERING Tishreen University

Address Latakia, Latakia, Syria | **Website** https://tishreen.edu.sy/en

LANGUAGE SKILLS

Mother tongue(s):   **ARABIC**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C2	C1	C2	C2
GERMAN	A1	A1	A1	A1	A1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

SKILLS

iGaming | NestJS Framework | Browser Games Development | PostgreSQL | Mongodb / Mongoose | Team-work oriented | Object-Oriented Programming | Web Development | Github | API Integrations | Portal Azure | MySQL