mohammed medhat shehata

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EDUCATION

Bacholer of Computer Science And Information Technology

Minor in Computer Science · Universtiy of Mansoura ,Daqahlia · Egypt · 2024 · 3.39

EXPERIENCE

Backend Developer

Baianat   **May 2024 – Present, Dammitta, new Dammitta**

· Designed and developed backend services using NestJS, GraphQL, and PostgreSQL, supporting over 1K+ monthly users with sub-second latency and scalable event-driven architecture.
· Improved data access speed on avgerage by 30% using Redis, DataLoader and query optimization techniques.
· Integrated 5+ third-party systems including Stripe, BunnyCDN, and Twilio, enabling 99.9% reliable payments, media delivery, and real-time user notifications.
· Achieved 70% test coverage with unit/integration tests; produced API docs via Swagger and participated in agile SDLC phases: sprint planning, reviews, and retrospectives.

Backend Developer

Tawiq   **February 2024 – May 2024, Cairo, El Sheikh Zayed City**

· Developed server-side applications using Node.js, Express.js, and MongoDB, increasing system scalability by 3x.
· Applied DevOps principles with message queues (e.g., BullMQ) and asynchronous task execution, achieving 99.8% uptime and recovering gracefully from system failures.

PROJECTS

Catrek – A Dedicated Catering Platform

Baianat · caterk.com

· Catrek connects users with a wide range of catering services, making event planning seamless and efficient.
· **Developed the Upload Component** with custom validation rules, leveraging **Node.js streams** for multi-part saving and processing layers, significantly reducing server load.
· **Integrated Twilio Messaging** to enable SMS and WhatsApp notifications for seamless communication.
· **Built the Modifier Groups Component** allowing restaurant owners to create unlimited product variations, enhancing the ordering experience.
· **Implemented Location Filtering** using **PostGIS**, optimizing geo-queries for accurate and efficient searches.
· **Optimized System Performance** by utilizing **DataLoaders** and **hashmaps** to improve state loading speed and consistency.

Classes-Hub - A feature-rich online learning platform

Baianat · classeshub.com

· **Integrated BunnyCDN** for optimised media delivery and reduced latency.
· **Created an open-source transactional** helper package **(npm-link)** to streamline and enhance database transaction management in Sequelize, improving developer efficiency and code clarity.
· **Integrated Stripe Payment Gateway** with a custom coupon applicability system for flexible discounts.
· **Built a Wallet System** for instructors and admins to track revenue, using queues to prevent race conditions.
· **Implemented Write-Through Caching** to eliminate inconsistencies and ensure data accuracy.
· **Utilised Event-Driven Design** to enhance the integration with the payment system.

Ajmal – A Holistic Well-Being App for Muslims

Baianat · ajmal.app/

· **Developed the Analytics Component** to track user interactions and engagement within the system.
· **Enhanced Firebase FCM Integration** by utilizing **BullMQ** to process events and send notifications in a separate execution thread, improving delivery efficiency and reliability.

CERTIFICATIONS

Developing Back-End Apps with Node.js and Express

coursera · 2023

SKILLS

· Node.js, Express, Nestjs, Graphql.
· PostgreSQL, MongoDB, Socket.io and Redis.