Yousef Shaban

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SUMMARY

Motivated Software Engineer with +1 years of experience in back-end development, specializing in modernizing legacy applications and optimizing database performance. Skilled in designing scalable systems, developing Restful API, and implementing modular architectures. Recognized for spearheading the modernization of a large legacy Nodejs application, enhancing system efficiency, and user experience. Committed to continuous learning and contributing to innovative software projects.

EXPERIENCE

Software Engineer I
May 2024 - Present

IT Land Canada
Alexandria, Egypt

- **Modernization of Legacy Application:** Spearheaded the modernization of a large legacy Node.js application, transforming it into a scalable, modular system customizable for various regions and user requirements.
- **Prepaid Card & GSM Charging Systems Development:** Designed and developed features for large-scale prepaid card and GSM SIM charging systems, supporting projects for Iraq (Alaimtedad, Noor Alkisaa) and Libya (Fisa).
- **Production Bug Resolution:** Identified and resolved critical production bugs, ensuring system reliability and uptime.
- **Performance Optimization:** Utilized high-performance optimization techniques to reduce query execution times by up to 90%, improving performance from several minutes to mere seconds, significantly enhancing system efficiency and user experience.
- **Modular System Design:** Restructured monolithic code into a modular architecture, setting the foundation for future microservices integration.
- **Feature Development & Documentation:** Led the development and enhancement of new features, ensuring all changes in business logic were thoroughly documented.
- **Error Handling & Logging:** Implemented advanced error handling mechanisms, customized middleware for error reporting, and improved logging using a centralized logging system. Enhanced overall exception handling practices.

Software Engineer
June 2023 - April 2024

Egyptian Navy Information Systems Department
Alexandria, Egypt

- **Legacy Web Application Maintenance:** Manage and documents tasks for a legacy web application built on the .NET framework.
- **Leadership in New System Development:** Spearhead a software development team to construct a document archiving system from inception to execution, utilizing Node.js and React.js technologies to deliver a high-performing solution.
- **Interview Management System Development:** Lead the development of an innovative interview management system from scratch, leveraging Node.js, React.js, and TypeScript technologies. Introduces real-time functionality using Socket.io to facilitate instant updates for secretaries and leaders, ensuring efficient communication and coordination during the interview process.
- **Codebase Migration:** Improve coding practices by migrating JavaScript codebase to TypeScript, promoting type safety and enhancing code readability.

Software Engineer Intern
March 2023 - May 2023

Orange Digital Center
Cairo, Egypt

- **Backend API Development:** Directed the development of robust backend APIs, employing leading-edge technologies like Node.js, Express.js, and Nest.js.Expertly crafted REST APIs tailored to support diverse entities within the system.
- **Database Design & Management:** Orchestrated the database design process, translating UI/UX designs into tangible solutions, and adeptly created Entity-Relationship Diagrams (ERDs) to steer development efforts.
- **ORM Frameworks:** Utilized Prisma ORM and TypeORM to architect and deploy MySQL and MongoDB databases, ensuring optimal performance and scalability.

SKILLS

Programming Languages: JavaScript, TypeScript, C#
Backend Development: Nodejs, Expressjs, Nestjs
Frontend Skills: HTML, CSS, Bootstrap, Reactjs
API Development: RESTful APIs, Real-Time Communication (Socket.IO)
Database Management: MySQL, MSSQL, MongoDB, Database Optimization, Query Tuning.
Testing: Unit Testing (Jest, Mocha), Integration Testing, API Testing (Postman)
Cloud Platforms & Serverless: AWS (Lambda, EC2, S3, DynamoDB, CloudWatch, API Gateway)
Version Control Systems: Git, GitHub, Gitlab.
Soft Skills: Effective Communication, Time Management, Adaptability, Problem Solving, Continuous Learning.
Documentation & Collaboration: Comprehensive Feature Documentation, Team Collaboration.

PROJECTS

Alpha Card Prepaid Cards System (Jun 2024 - Present)

- Project Overview: Leading the development of a large-scale prepaid card and GSM SIM charging system designed for multiple regions, including Iraq and Libya. The system is aimed at managing prepaid card transactions, account balances, and SIM recharge services, providing users with seamless access to their mobile credit.
- Backend Development: Architected and developed scalable backend infrastructure using Node.js, optimizing performance and ensuring the system can handle high volumes of concurrent transactions.
- Database Optimization: Enhanced database performance by implementing query optimizations, indexing, and advanced troubleshooting techniques, reducing query execution times by up to 90%, improving the efficiency of data retrieval and system performance.
- Continuous Improvement: Participated in regular code reviews, refactored legacy code, and optimized the application architecture to support scalability and long-term maintainability.
- Code Improvement: Simplified and streamlined the code structure, making it easier to maintain and understand, resulting in faster development and fewer errors.
- Error Management: Developed a system-wide approach to handle errors consistently, ensuring that issues are quickly identified, diagnosed, and resolved, improving overall system reliability.
- Technologies Used: Node.js, Express.js, JavaScript, MySQL, Prettier, ES-Lint

Electronic Document Archiving System (Jun 2023 - Mar 2024)

- Project Overview: Developing a simulated environment for the archival of both incoming and outgoing correspondence within the company, incorporating robust file encryption capabilities.
- Backend Development: Architected and implemented scalable backend infrastructure using Node.js, ensuring efficient handling of concurrent requests.
- Frontend Interface: Developed a responsive and intuitive frontend interface using React.js, enhancing user experience and accessibility.
- Code Reliability: Integrated TypeScript to enforce static typing, ensuring code reliability and maintainability throughout the development process.
- RESTful API Implementation: Created RESTful API endpoints with Express.js, facilitating seamless communication between frontend and backend components.
- Security Measures: Implemented robust encryption mechanisms to safeguard sensitive information, ensuring data security and compliance with privacy regulations.

EDUCATION

Bachelor's degree, Computer and Automatic Control Engineering   *September 2017- July 2022*
Faculty of Engineering, Tanta University (Very Good)   *Tanta, Egypt*

CERTIFICATIONS

Mean Stack Diploma | Tech Experts | Orange Digital Center   *February 2023*
Certified In Backend Development Using Node.JS, Express.JS and Angular ODC4245815IN

LANGUAGES

Arabic   English
Native or Bilingual Proficiency   Professional Working Proficiency