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📍 Cairo, Egypt

Summary

Node.js backend developer with over 3 years of experience building robust, scalable web solutions. Proficient in designing and developing efficient RESTful APIs, optimizing database performance, and implementing cloud-based architectures to enhance application scalability. Hands-on experience in frontend development and its libraries like React.js, with a proven ability to quickly learn and adapt to new technologies and domains.

Experience

Egyptian Research and Development Center · Cairo, Egypt · On-Site **Oct 2022 – Present**

Backend Developer

- Designed and implemented REST APIs to ensure efficient, secure, and scalable data exchange between servers and clients.
- Launched a web solution for staff management, reduced onboarding time for new employees and manual errors by 50%.
- Built an efficient CI/CD pipeline using GitHub Actions, Docker, and automated testing tools, which streamlined the build, testing, and deployment processes.
- Contributed to an AI-driven solution and improved the performance and accuracy of a computer vision model by over 5x.

BrandArtist · Bavaria, Germany · Remote

Aug 2021 – Oct 2022

Full Stack Developer - MERN

- Collaborated closely with cross-functional teams, including UI/UX designers, QA testers, and product managers, to design, develop, deploy, test, and release high-quality software solutions.
- Enhanced web application performance by 30% through code optimization, database improvements, UI adjustments, and implementation of caching strategies.
- Utilized Agile methodology (Scrum) to prioritize tasks, manage sprints, track progress, and ensure on-time delivery of features.

Banque Misr · Cairo, Egypt · Internship

Jun 2021 – Jul 2021

Education

Bachelor's Degree in Computer Science, Zagazig University

2018 – 2022

Grade: Excellent with honors, equivalent to a 3.7 GPA.

Graduation Project: IoT Smart City, ranked 1st in the Zagazig University GP Conference.

Skills

Programming Languages: JavaScript, TypeScript

Back-End Development: Node.js, Express.js, REST APIs, Microservices, Auth (JWT, OAuth)

Databases: SQL (MySQL, PostgreSQL), NoSQL (MongoDB, Redis), ODM (Mongoose)

DevOps and Cloud: AWS (EC2, S3), MS Azure (VMs, App Service, Blob Storage), Docker, CI/CD

Front-End Development: React.js, Redux, HTML, CSS, SASS, Tailwind, Bootstrap

Development Tools: Testing (Postman, Jest), Version Control (Git, GitHub), OS (Linux, Mac, Win)

Software Engineering Principles: OOP, SOLID, DSA, TDD, Design Patterns, Clean Code

Soft Skills: Problem Solving, Self-Learning, Time Management, Communication, Teamwork

Currently Learning: Nest.js, GraphQL, RabbitMQ, Kubernetes

Projects

WyldPay [🔗](#) | TypeScript, Node.js, React.js, Redux, SASS, AWS Aug 2022 – Present

QR Food Ordering Solution through web interface

- Built and maintained RESTful APIs for efficient data handling and integration.
- Established secure authentication and authorization mechanisms using JWT.
- Integrated Stripe, PayPal, and Apple Pay for secure and flexible payment processing.
- Developed a responsive user and admin interface for a dynamic and engaging experience.
- Implemented additional features such as discount coupons, tips, invoices, and subscription plans.

Kids Social [🔗](#) | Node.js, Express.js, React.js, MongoDB, Heroku May 2022 – Aug 2022

Social media platform for kids

- Designed database schema and mapped it into MongoDB collections and documents.
- Developed features like posts, comments, reactions, friend requests, and invitations via email.
- Integrated WebSocket and WebRTC for real-time chat, video, voice calls, and voice messages.

IoT Smart City [🔗](#) | Node.js, MongoDB, Mongoose, MS Azure Oct 2021 – May 2022

Graduation project that integrates smart home and parking functionalities using IoT technologies

- Led a team of developers, breaking down tasks and roles using Agile methodology.
- Built REST APIs to integrate IoT devices with a mobile app.
- Configured MS Azure cloud services, including creating VMs, and managing DNS settings.
- Improved system reliability and performance via load balancing and availability configurations.
- Enhanced security against common attacks such as NoSQL injection, CSRF, and DoS attacks.

library API [🔗](#) | Node.js, PostgreSQL, Swagger, Heroku Sep 2021 – Oct 2022

REST API for managing library with comprehensive documentation

Blog [🔗](#) | Node.js, React.js, bootstrap, MongoDB, MS Azure Aug 2021 – Sep 2021

Blog platform for content management, and customization

Airport Registration [🔗](#) | Node.js, React.js, MySQL Jun 2021 – Jul 2021

Simple SPA for airport registration, ensuring DB replication in MS Azure

Arabic Marketplace Front-end [🔗](#) | React.js, CSS May 2021 – Jun 2021

Marketplace with user-friendly product listings and an admin dashboard

Online Chat [🔗](#) | Node.js, EJS, WebSocket, WebRTC, Google OAuth Mar 2021 – May 2021

Private and Group Chats, Video Calls, Friend Requests, Online friends, and Realtime Notifications

E-Store [🔗](#) | Node.js, EJS, SSR, PayPal SDK, MongoDB, Heroku Oct 2021 – Mar 2021

E-commerce store website

- Product Search, Cart Management, and Order Confirmation.
- Integrated PayPal third-party API for secure payment processing.
- Implemented an admin dashboard to add and manage products and orders.
- Featured order tracking for users and provides logging capabilities for admins.

Native android apps [🔗](#) | Java, Android Studio, Android SDK, Gradle Nov 2020 – Jan 2021

Contacts management and auth forms apps

Leon [🔗](#) · **Sky** [🔗](#) · **Elite** [🔗](#) · **Tanatos** [🔗](#) · **Bootcamp** [🔗](#) Sep 2020 – Nov 2020

Responsive landing pages built using HTML5 and CSS3 to enhancing my web design skills.