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📍 Cairo, Egypt

Summary

Software Engineer with 3+ years of experience in developing scalable web solutions and REST APIs. Proficient in backend development, database optimization, and cloud-based architectures, with extensive hands-on experience in frontend development and its libraries.

Passionate about problem-solving and continuously learning new technologies and domains.

Experience

Egyptian Research and Development Center · Cairo, Egypt · On-Site **Oct 2022 – Oct 2024**

Software Engineer

- Developed scalable and secure RESTful APIs using Node.js for efficient data exchange between servers and clients.
- Launched a staff management web solution, reducing employee onboarding time and manual entry errors by 40%.
- Built a robust CI/CD pipeline using Docker, GitHub Actions, and automated testing, streamlining the build, and deployment process.
- Contributed to an AI-driven computer vision solution, enhancing model performance and accuracy by over 5x.

BrandArtist · Bavaria, Germany · Remote

Aug 2021 – Oct 2022

Full Stack Developer - MERN

- Collaborated with remote cross-functional teams 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 caching strategies.
- Utilized Agile Scrum methodology 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, C++, Python

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

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

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

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

Computer Vision and Embedded: PyTorch, OpenCV, CUDA, YOLO, Arduino, Nvidia Jetson

Development Tools: Testing (Jest, Postman), 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

Some of Works

WyldPay [🔗](#) | **TypeScript, Node.js, Express.js, React.js, Redux, MongoDB, Redis, Docker, AWS**

QR Food Ordering Solution (Full-Stack Web Application)

- Built and maintained RESTful APIs for efficient data handling and integration.
- Integrated multiple payment gateways (Stripe, PayPal, Apple Pay) for flexible payments.
- Utilized Redis for in-memory caching to reduce database load and improve API response times.
- Implemented advanced features, including discount coupons, tips, invoicing, and subscription plans.
- Containerized the application using Docker for streamlined deployment and environment consistency.

Kids Social [🔗](#) | **Node.js, Express.js, React.js, WebSocket, MongoDB, Heroku**

Social Media Platform for Kids (Full-Stack Web Application)

- Executed the full SDLC phases from analysis to design, development, testing, and deployment.
- Integrated WebSocket and WebRTC for real-time chat, video and voice calls, and voice messages.
- Developed core social media features like posts, comments, reactions, friend requests, and invitations.
- Applied security best practices like rate limiting, CORS, JWT, encryption, data validation, and sanitization.

IoT Smart City [🔗](#) | **Node.js, Express.js, MongoDB, Microcontrollers, Microsoft Azure**

Smart Home and Parking Integration (IoT-Based Graduation Project)

- Led a team of developers, assigning tasks and roles using Agile Scrum methodology.
- Built REST APIs to connect IoT devices with a Flutter mobile app for real-time control and monitoring.
- Managed MS Azure cloud, including VMs and load balancing to improve performance and scalability.

Library API [🔗](#) | **Node.js, Express.js, Swagger, PostgreSQL, Heroku**

Library Management RESTful API

- Developed a scalable RESTful API to handle core library management operations.
- Integrated PostgreSQL as the database, implementing efficient data models and queries.
- Documented API endpoints with clear, interactive docs for easy integration by frontend developers.

E-Store [🔗](#) | **Node.js, EJS, SSR, PayPal SDK, MongoDB, Mongoose, Heroku**

E-commerce store (Full-Stack Web Application)

- Integrated PayPal third-party SDK to handle secure payment processing.
- Implemented an admin dashboard for product management, order tracking.
- Optimized user experience with product search, filtering, cart management, and order confirmation.

For more details and additional projects, please visit my GitHub: [GitHub Link](#).

Volunteer Experience

Remote Volunteer (Programming Instructor) · Academy Achievers · London, UK

Jan 2021 – Jun 2021

- Taught programming and web technologies to children and young people.
- Mentored students to foster their interest in technology, helping to equip them for the future of work.
- Collaborated with other volunteers to organize live and pre-recorded workshops and training sessions.

Languages

- **English:** Professional Proficiency
- **Arabic:** Native