

Mohammad Zrar Mohammad

Software Engineer

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SUMMARY

Software Engineer with 2.5 years of experience as a full-stack developer, specializing in backend engineering and scalable system design. Experienced in building production-grade web applications and API-driven systems using NestJS, Laravel, React, Next.js, and Vue.js, with strong attention to performance, scalability, and maintainability. Skilled in developing backend architectures, real-time systems, and database-driven applications using relational databases and ORMs such as TypeORM, Sequelize, and Eloquent, including database design, migrations, and query optimization. Capable of managing the full software development lifecycle, from project initialization and architecture planning to deployment, server configuration, and production maintenance.

PROFESSIONAL EXPERIENCE

Ovanya 09/2024 – Present
Full-Stack Developer Erbil, Kurdistan

Contributing to the development of scalable web applications using ReactJS, NextJS, Laravel, and NestJS. Collaborating with cross-functional teams to deliver performant and maintainable front-end solutions. Involved in designing RESTful APIs, optimizing user interfaces, and ensuring code quality through clean architecture and best practices.

Myrtle Financial Consultation Co., Ltd. 03/2024 – 09/2024
Front-End Developer Erbil, Iraq

Developed and maintained the company's CRM system and main website using Vue.js. Focused on improving performance, usability, and overall user experience. Collaborated with the backend team to integrate APIs and ensure smooth data flow between systems.

PROJECTS

Digital Kiosk System

Designed and developed a full-stack digital kiosk platform using NestJS and Next.js, with a primary focus on backend architecture, infrastructure, and real-time system functionality. Built a centralized management system for controlling multiple physical kiosks, including deployment and infrastructure management across cloud and on-device environments.

Developed a dynamic advertisement scheduling engine supporting configurable daily slots, pricing, duration management, and kiosk-specific campaign control for video and image advertisements. Implemented real-time communication using WebSockets and REST APIs to synchronize kiosk content and system operations.

Built and integrated multiple kiosk modules, including live streaming between kiosks using Agora, interactive public service screens, Deals.krd integration, AI-powered image generation experiences, quiz-based engagement systems, and emergency/contact information services. Integrated AI-based impression tracking to monitor advertisement visibility and analytics.

Implemented authentication and role-based authorization with dynamic permission management for administrators and operators, along with a comprehensive management panel for kiosk control, advertisement management, live streaming operations, and content scheduling.

Library Management System [↗](#)

Designed and developed a full-stack library management system for Youthhub using Laravel, Vue.js, and React. Built the backend architecture, admin management panel, borrowing gateway interface, and handled project deployment. Implemented real-time integration with RFID-based scanning devices to automate book borrowing, returning, and inventory tracking workflows. Developed a management panel for handling books, stock, and borrowing records, while integrating the system with the main Youthhub platform through shared infrastructure and APIs. The system significantly reduced manual data entry and streamlined library operations through automated RFID-driven processes.

Grei Agency Website [↗](#)

Optimized the Grei Agency portfolio website by resolving performance bottlenecks, improving load times, and enhancing overall site responsiveness through code refactoring and technical improvements.

FIB 3D Avatar

Built an interactive 3D avatar application using React Three Fiber with AI integration and camera tracking. Enabled real-time voice conversations with responsive avatar movements and expressions, creating an immersive conversational AI experience.

ForeEx CRM

Developed a comprehensive CRM system for Forex-Iraq to streamline customer management, transaction tracking, and business operations. Implemented features for client data management, automated workflows, and reporting dashboards to enhance operational efficiency. Full project details: [The LinkedIn Post](#) [↗](#)

EDUCATION

Salahaddin University-Erbil

College of Science Computer Scicne Department

2019 – 2023

Erbil, Iraq

SKILLS

Programming Languages and Frameworks

JavaScript/TypeScript(ReactJS, NextJS, VueJS, NestJS), PHP(Laravel), Python, C++, SQL

Tools & Technologies

PostgreSQL, Git/GitHub, Linux, Docker, REST APIs, WebSockets, Nginx, Redis

Project Management & Collaboration

- ClickUp, Agile collaboration, client communication, and cross-functional teamwork.

CERTIFICATES

- Next.js 15 & React - The Complete Guide [↗](#)

- Clean Code [↗](#)

- 100 Days of Code: The Complete Python Pro Bootcamp for 2023 [↗](#)

- Vue - The Complete Guide (incl. Router & Composition API) [↗](#)