Zakaria Sassi

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Skills

Node.js React.js Apollo GraphQL TypeScript JavaScript

Python MySQL (AWS RDS) MongoDB PostgreSQL

AWS Web Services (Route 53, CloudWatch, Terraform, S3, RDS, ECS, Lambda, API Gateway) Cloudflare

Docker Git GitHub

Summary

Innovative Full Stack Web Developer with over 5 years of comprehensive experience in designing, developing, and deploying scalable web applications. Proficient in Node.js, React.js, and TypeScript, with expertise in leveraging modern front-end libraries and frameworks. Experienced in building robust APIs using Apollo GraphQL and integrating with databases including MySQL, MongoDB, and PostgreSQL. Skilled in cloud services and infrastructure management with AWS (Route 53, CloudWatch, Terraform, S3, RDS, ECS, Lambda, API Gateway) and Cloudflare, as well as containerization using Docker. Adept at deploying Kubernetes clusters and managing data warehouses with tools like SSIS.Proven track record of delivering high-performance solutions and maintaining scalable applications.

Experience

Full Stack Developer, MB Group Malta

Full Stack Web Developer Sharara Oil Services Libya October 2021 – February 2022

Engineered an advanced oil and gas management system using Node.js, React, and PostgreSQL, designed to optimize operations and enhance data-driven decision-making.

Collaborated within an Agile Scrum team, delivering end-to-end solutions through Node.js Web API, MVC, and ReactJS, while overseeing the migration of legacy systems to a modern tech stack.

Led a greenfield project to develop the next generation of the oil and gas management platform, incorporating technologies like OpenShift, Rancher RKE (Kubernetes), Kafka, Couchbase, and PostgreSQL to ensure scalability and robustness.

Employed various front-end technologies including TypeScript, React, and Vue.js, while maintaining and updating legacy components built with KnockoutJS.

Tuned system and database performance by re-writing SQL queries and optimizing data handling processes to meet the demanding requirements of the oil and gas industry.

Designed and implemented a Star Schema Data Warehouse, enabling advanced analytics and reporting, tailored for the specific needs of the oil and gas sector.

Performed critical Database Administration tasks, such as backups, index maintenance, and query optimization, ensuring data integrity and availability.

Successfully migrated the system to AWS, and deployed key infrastructure components like a Redis/Sentinel cluster on Linux VMs within a private cloud environment.

Played a key role in interviewing candidates and mentoring new recruits, contributing to a highly skilled and cohesive development team.

Software Engineer, Proton Technology Libya January 2019 - August 2020

Developed and maintained a Learning Management System using Node.js and PostgreSQL, managing 1000+ monthly active users.

Worked within an Agile Scrum team delivering solutions using Node.js Web API, MVC, and ReactJS. Oversaw the project to migrate the Learning Management System to a modern tech stack.

Led a team on a greenfield project to create the next version of the LMS using OpenShift, Rancher RKE (Kubernetes), Kafka, Couchbase, and PostgreSQL.

Utilized various front-end technologies including Typescript, React, and Vue.js. Also maintained legacy systems built with Knockout.js.

Tuned application and database performance by optimizing queries and re-writing stored procedures.

Designed and implemented a Star Schema Data Warehouse using modern ETL tools and integrated data visualization with PowerBI.

Performed Database Administration tasks such as backups, index maintenance, and query optimization. Extensive knowledge of SQL and PostgreSQL.

Migrated the existing system to AWS and managed Linux VMs on private cloud infrastructure, including critical components like Redis/Sentinel clusters.

Interviewed candidates and mentored new recruits to strengthen the development team.

Full Stack Developer, Information and Documentation Center (Ministry of Interior), Libya, April 2023

Developed and implemented a traffic violations management system for the Ministry of Interior, using Node.js, SQL Server, Redis, React, and Vite, ensuring efficient processing and tracking of violations.

Led the end-to-end development process, from back-end services built with Node.js to responsive front-end interfaces designed with React and styled using Tailwind CSS.

Optimized database interactions with SQL Server and utilized Redis for caching to enhance system performance and scalability.

Deployed the entire application on a Linux server, ensuring a stable and secure environment for the system's operations.

Collaborated closely with government stakeholders to understand requirements, deliver solutions, and continuously improve the system based on user feedback.

Ensured high-quality code through rigorous testing and best practices, maintaining system reliability and security.

Projects

Landing Pages for Companies Freelance Web Developer |August 2016 - Present

Designed and developed numerous landing pages for various companies as a freelance web developer, using modern technologies like React, Tailwind CSS, and Node.js to deliver high-quality, responsive web solutions.

Collaborated with clients to understand their business goals and target audience, translating their vision into visually appealing and effective landing pages that drive conversions and engagement.

Created custom landing pages tailored to each client's brand identity, incorporating elements such as lead capture forms, call-to-action buttons, and dynamic content to maximize user interaction.

Utilized best practices in UX/UI design to ensure that each landing page provided an intuitive and seamless user experience across all devices.

Integrated analytics and tracking tools to monitor the performance of landing pages, enabling clients to gain insights into user behavior and optimize their marketing strategies.

Deployed landing pages on various hosting platforms, ensuring fast load times, security, and scalability to meet the needs of growing businesses.

Offered ongoing support and maintenance to clients, making updates and improvements based on feedback and changing business requirements.

LiboCare Co., April 2024 – August 2024

Developed the Libo Care e-commerce platform, a comprehensive solution for selling products and services online, using Node.js for the back-end, React for the web front-end, and React Native for the mobile application.

Built and managed key features including product listings, categories, coupons, user wallets, and special offers, ensuring a robust and user-friendly shopping experience across all platforms.

Designed and implemented the user wallet feature, allowing users to charge their wallets with cards and use the balance for seamless transactions within the app.

Integrated a secure payment gateway to facilitate various payment methods, ensuring smooth and reliable payment processing for all users.

Developed a dynamic coupon system to offer discounts and promotions, enabling users to apply coupons at checkout for savings on their purchases.

Utilized React and React Native to create responsive and intuitive interfaces, providing a consistent user experience across web and mobile devices.

Deployed the platform on Linux servers, ensuring high availability, security, and scalability to handle a growing user base and increased transaction volumes.

Implemented features for managing product categories, tracking orders, and processing payments, delivering a comprehensive e-commerce solution tailored to the needs of Libo Care.

Continuously enhanced the platform by integrating new features and optimizing performance based on user feedback and evolving business needs.

HoneyCard, MB Group Malta, May 2023 – December 2023

Developed HoneyCard, a comprehensive application that provides virtual cards for users to access discounts on a wide range of products and services, including categories like stores, hospitals, and more.

Designed and implemented the app using Node.js for the back-end, React for the front-end, and PostgreSQL for database management, ensuring a seamless and secure user experience.

Created virtual card functionalities allowing users to generate and manage their discount cards directly within the app, providing access to exclusive deals and promotions.

Developed a category-based system to organize discounts and services, enabling users to easily navigate through various categories such as retail stores, medical services, and more.

Integrated features for real-time updates on available discounts, user account management, and transaction history, enhancing the overall functionality and user engagement.

Utilized React to build a responsive and intuitive user interface, ensuring a smooth experience across various devices and screen sizes.

Implemented secure data handling practices and optimized the application's performance to handle high traffic and maintain user privacy.

Deployed the application on a Linux server, ensuring reliability and scalability to support a growing user base.

Traffic Violation System, Information and Documentation Center (Ministry of Interior), January 2023 – December 2023

Books Library System, University Graduate Project, May 2020 – December 2020

Designed and developed a comprehensive books library system as a university graduate project, utilizing Node.js, React, and PostgreSQL to manage and catalog a wide range of books.

Implemented key features including user authentication, book search and filtering, borrowing and return functionalities, and administrative tools for managing inventory and user accounts.

Developed the front-end using React to create a user-friendly interface with responsive design, allowing users to easily browse, search, and interact with the library catalog.

Built the back-end with Node.js to handle data processing, user requests, and integration with the PostgreSQL database for storing book information, user data, and transaction records.

Ensured data integrity and optimized performance through effective database schema design and query optimization in PostgreSQL.

Deployed the application on a Linux server, ensuring reliable access and security for users.

Applied Agile methodologies to manage the project lifecycle, including requirements gathering, development, testing, and deployment.

Presented the project as a comprehensive solution for managing a university library, demonstrating strong skills in full-stack development and project management.

Waffer Android App, August 2019 – September 2019

Developed the Waffer app, a marketplace platform for selling goods and food packages in the Crimea Souq, using Node.js, React, and PostgreSQL.

Designed and implemented key features, including product listings, user authentication, and a secure payment gateway, ensuring a seamless shopping experience for users.

Integrated the front-end interface with React, delivering a responsive and intuitive user experience tailored to the needs of the local market.

Optimized back-end services with Node.js, ensuring efficient handling of transactions, inventory management, and order processing.

Managed database operations with PostgreSQL, ensuring data integrity and smooth performance under high traffic conditions.

Deployed the app on a Linux server, ensuring reliable and secure access for users.

Worked closely with stakeholders to tailor the app to the specific demands of the Crimea Souq, continuously refining features and user interactions based on market feedback.

Education

Bachelor of Computer Science, University of Tripoli, Libya – Tripoli, 2021