

Osama Mirghani

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Summary

Experienced software engineer with **8+ years** of experience building scalable web applications across **fintech** and **B2B** domains. AWS-certified Solution Architect skilled in **clean code**, **security**, and **performance**. Currently engineering enterprise banking solutions at **Emirates NBD**. Proactive problem solver committed to delivering exceptional user experiences through user-centric design and agile methodologies.

Skills

- **Frontend:** Javascript | Typescript | HTML5 | CSS3 | ReactJS | NextJS | Tailwind CSS | Styled Components | SCSS | Material-UI | CSS-in-JS | Ant Design | Framer Motion | Redux | CSS Preprocessors | ES6.
- **Backend:** Rest API | Microservices | NodeJS | Express.js | MongoDB | TypeORM | GraphQL | PostgreSQL | Redis.
- **Cloud & DevOps:** AWS | Firebase | Docker | Cloud Computing | Solution Architecture.
- **Tools:** Git | Jest | TSLint | Prettier.

Soft Skills

- **Project Management:** Agile | Scrum | Software Development Lifecycle | Decision Making.
- **Communication and Interpersonal Skills:** Communication | Conflict Resolution | Leadership | Collaboration.
- **Personal and Team Effectiveness:** Time Management | Adaptability | Problem-Solving | Continuous Improvement | Prioritization.

Experience

Emirates NBD

Software Engineer, United Arab Emirates

03/2024 - Present

- Engineering enterprise banking solutions for the largest banking group in the Middle East, leveraging **ReactJS**, **NodeJS**, and **AWS** cloud services.
- Contributing to **FinTech** and **B2B** platform development with focus on **security**, **performance**, and **scalability**.
- Collaborating with cross-functional teams within an agile/scrum framework to deliver production-ready features.

Elliptic for Information Technology Consultants

Technical Lead, United Arab Emirates, Dubai

03/2022 - 11/2023

- Led a team of 4 developers, overseeing **Scrum ceremonies** and conducting thorough **code reviews** to maintain consistent code quality and project progression.
- Enhanced **code structure** and **quality** while reducing the codebase by **15%** through diligent adherence to best practices.
- Streamlined development and deployment processes through the utilization of **mono-repos**, **TypeScript**, and **GitHub Actions**.
- Assessed the feasibility of UI/UX designs in collaboration with the design team, translating prototypes into **modular and responsive React components**.
- Leveraged cloud services from **AWS** and **Firebase**, including authentication, databases, and serverless functions, to ensure utmost scalability and reliability.
- Constructed the company's website using **NextJS**, **SCSS**, and **Firebase Cloud Functions**, ensuring a seamless and responsive user experience.

Senior Software Engineer, United Arab Emirates, Dubai

01/2021 - 03/2022

- Applied a tech stack of **ReactJS**, **NodeJS**, **Firebase**, **Ant Design**, and **AWS**, ensuring a robust foundation for project development.
- Successfully implemented scalable, ultra-low latency, and adaptive bit rate **WebRTC live-streaming** capabilities.
- Developed a comprehensive **email notification system** using NodeJS, Nodemailer, and Firebase Functions.
- Integrated **social login** with Google, Twitter, and Facebook using Firebase Authentication.
- Implemented **website translation** to Russian using **react-i18next**, automated through Localize translation management.

- Created a dynamic **live chat** and **online presence** system using ReactJS, Firebase Real-time Database, Firestore, and NodeJS.
- Enabled **crypto payment options** with Bitcoin integration using **BTCPay Server**.
- Developed an admin panel to manage users, payments, and transactions using ReactJS, Redux, Reactstrap, and Firebase Admin SDK.
- Utilized **Hygraph** headless CMS for blog creation and consumption, integrated with ReactJS through GraphQL.
- Managed image and video uploads, storage, and manipulation using **Amazon S3**.
- Implemented complex data storage using **PostgreSQL**, optimizing database design and query performance.
- Containerized applications using **Docker** for uniform deployment across environments.
- Employed **Jest** for comprehensive unit testing, ensuring accuracy and stability of components.
- Employed **Redux** for efficient state management in React applications.

Interface FZE

Senior Software Engineer / Front End Lead, Sudan, Khartoum

08/2019 - 01/2021

- Worked with **ReactJS**, **Bootstrap**, **Material-UI**, **SASS** and other technologies to achieve the desired UI.
- Worked with **Styled-Components** to create customizable, reusable, and robust React components.
- Implemented **online payment integration** through third-party service providers in Sudan.
- Implemented secure **authentication and authorization** mechanisms using **JWT** to protect sensitive data and restrict access.
- Applied web security best practices including **input validation**, **CSRF protection**, and **XSS prevention**.
- Containerized applications using **Docker** for consistent environments across development, testing, and production.
- Implemented **unit testing** using Jest to verify the correctness of components and functions.
- Developed server-side applications using **Node.js**, leveraging its asynchronous nature for scalable web services and APIs.
- Integrated **MongoDB** as a NoSQL database to store and manage dynamic data.
- Effectively communicated with clients to understand requirements, provide progress updates, and address feedback.
- Led a team of **4 developers**, clearly communicating project goals, resolving conflicts, delegating tasks, and managing time efficiently.

Xzone

Software Engineer, Sudan, Khartoum

12/2017 - 07/2019

- Worked with **ReactJS** and **WordPress** to design and develop client websites.
- Integrated **third-party APIs** to enrich website functionality and improve user engagement.
- Developed server-side logic using **Node.js** for backend operations, data processing, and API interactions.
- Applied **responsive design** and **mobile-first** approach.
- Implemented **Redux** for centralized state management in complex React applications.
- Utilized **GraphQL** for flexible data querying and reduced over/under-fetching.
- Employed **Docker** to containerize applications for consistent deployment.
- Utilized **TypeScript** to add static typing, catching errors during development and improving maintainability.
- Integrated **MongoDB** as a NoSQL database for flexible data storage and retrieval.
- Worked with **CSS-in-JS** solutions like Styled Components for styling React components.
- **Performance profiling**: identified bottlenecks using React Profiler and Lighthouse to optimize React applications.
- Managed code collaboration using **Git**, with pull requests and code reviews to maintain coding standards.

Certifications

- AWS Certified SysOps Administrator – Associate
 - AWS Certified Developer – Associate
 - Professional Scrum Master™ I (PSM I)
 - Professional Scrum Product Owner™ I (PSPO I)
 - React Certificate
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Education

B.Sc Electrical and Electronics Engineering

University of Khartoum, Sudan, Khartoum

11/2012 - 11/2017

- Served as a teaching assistant for computer science courses, assisting fellow students in their learning process.
 - Collaborated with peers on group projects, displaying strong teamwork and communication skills.
 - Engaged in community service and volunteer work under charity organizations, to give back to the community.
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Languages

Arabic (Native) · English (Professional) · French (Elementary)