Ayman Ali

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Core Expertise

- **Front-End Development**: Proficient in ReactJS, Redux, React-Native, Next.js, and Material-UI, building scalable, responsive applications with optimized, reusable components.
- **Advanced State Management**: Skilled in complex state solutions using Redux and React Context API, with optimized rendering techniques using `useState`, `useEffect`, and `useMemo`.

Performance & Optimization

- **Data & API Integration**: Experienced with RESTful APIs and GraphQL for seamless data fetching. Proficient in React Router, lazy loading, and code splitting for performance optimization.
- **Server-Side Rendering**: Expertise in server-side rendering (SSR) and static site generation (SSG) using Next.js, improving loading speeds and SEO.

UI & Architecture

- **UI Engineering**: Skilled in JavaScript (ES6+), TypeScript, and CSS-in-JS libraries like Styled Components and Emotion to create maintainable UI architectures.
- **Form & Interaction**: Experienced with React Hook Form and Formik for robust user interaction and form management.

Tooling & Testing

- **Build & Optimization**: Proficient in Webpack, Babel, and ESLint for optimized builds. Skilled in testing front-end components using Jest and React Testing Library.
- **Deployment & Maintenance**: Familiar with CI/CD pipelines, ensuring reliable deployment and maintenance of applications.

AI & Integrations

- **AI Model Training**: Experienced with TensorFlow and Hugging Face for training models like ChatGPT, incorporating AI-driven experiences in user-facing applications.

- **Third-Party Integrations**: Skilled in integrating Stripe, Calendly, and Mux, enabling robust payment, scheduling, and video streaming capabilities.

Collaboration & Agile Development

- **Team Collaboration**: Strong background in agile methodologies, using GitHub, Jira, and Git workflows to manage development, including PR reviews and version control.

EDUCATION

M.Sc Computer Science, Information Management Systems   2008-2017

Harvard University, Cambridge

B.Sc in Computer Science. Software Engineering   1988-1993

Faculty of Engineering, Cairo

Professional Development & Key Learnings

- **Advanced React Proficiency:** Through roles focused on front-end development, I mastered advanced React libraries like Redux, Redux-Toolkit, and React Router, enhancing my ability to build scalable and efficient applications.
- **UI Design and Implementation:** Collaborating with UX designers allowed me to refine my skills in component-driven development, utilizing Material-UI and Styled-Components to create user-friendly interfaces that align with brand standards.
- **Performance Engineering:** Gained hands-on experience with Webpack and Babel, optimizing application performance and implementing server-side rendering (SSR) with Next.js to improve loading times and SEO outcomes.
- **State Management Expertise:** Developed a deep understanding of state management solutions, including Context API and Global Store patterns, to facilitate efficient data flow and rendering in complex applications.
- **Testing and Quality Assurance:** Cultivated a robust approach to testing with React Testing Library, Jest, and Enzyme, ensuring high-quality, reliable code through rigorous unit and integration testing practices.
- **API Development and Integration:** Acquired skills in building and integrating RESTful and GraphQL APIs, enabling seamless data interactions and enhancing user experiences across various platforms.
- **Cloud Services Proficiency:** Developed a strong foundation in cloud computing, utilizing AWS and Google Cloud for deploying applications, and leveraging Firebase for authentication and real-time databases.
- **Database Management Experience:** Enhanced my capabilities in relational database management, particularly with PostgreSQL, as well as gaining insights into NoSQL database solutions to meet diverse project needs.

EXPERIENCE

Front-End Manager
Nov 2022 – Present
FanFix, Beverly Hills, CA

- **Team Leadership & Collaboration**
  - Led a remote front-end team based in India, ensuring on-time, high-quality deliverables through agile processes, sprint planning, and retrospectives.
  - Worked closely with UX designers to build intuitive, reusable components aligned with the platform's user experience and brand standards.
- **Platform Development & Architecture**
  - Developed and managed the core messaging system, live streaming functionality, payment processing, and profit-sharing modules.
  - Designed and implemented a micro-front-end framework that enabled distributed teams to deploy updates independently, enhancing efficiency and scalability.
- **Technology Stack & Implementation**
  - Utilized advanced React skills including GraphQL, Redux, and state management techniques, ensuring seamless data handling and component rendering.
  - Integrated backend data-saving mechanisms with Firebase and REST endpoints, optimizing real-time data management using React hooks and Redux.

ThermoFisher (Contract)
Sep 2020 – Oct 2022
Carlsbad, CA

- **Project Architecture & System Optimization**
  - Developed a high-performance, distributed multi-language platform using React micro-front-end and server-side rendering (SSR) with Next.js.
  - Enhanced form management and validation using Formik and Yup, providing real-time validation for an improved user experience.
- **Component & Microservices Development**
  - Built reusable components in React and React Native with Material-UI, JSS, SCSS, and Redux-Saga, maintaining consistency with ThermoFisher's design system.
  - Developed scalable RESTful microservices with Node.js, Postgres, TypeORM, Loopback, and GraphQL, supporting backend data processing.
- **Analytics & Automation**
  - Integrated Google Analytics and Adobe Analytics within React, optimizing data layer auto-allocation and enabling data-driven insights.
  - Managed CI/CD pipelines with Python, Docker, Kubernetes, and Rancher, ensuring streamlined deployment across distributed systems.
- **Cloud Infrastructure & Third-Party Integrations**

- Deployed applications on Amazon EC2 and AWS, implementing automated scaling and managing virtual infrastructure.
- Integrated services such as Stripe for payments, Calendly for scheduling, Video-js for video, and Mux, enhancing platform functionality.

CloudVirga (Contract)
Nov 2017 – Sep 2020
Irvine, CA

- **Platform Design & Implementation**
  - Architected a loan origination platform using React and Node microservices centered around Kafka, integrating third-party services for seamless credit analysis, pricing, appraisal, and document generation.
  - Built RESTful microservices with Node.js, Postgres, TypeORM, and Kafka, enabling scalability and high performance.
- **Front-End Development & Optimization**
  - Developed responsive user interfaces using SCSS, Redux-Saga, Material-UI, and custom generators, ensuring consistency and usability.
  - Collaborated with cross-functional teams to define specifications for Next.js pages and React components, bridging communication between customers and offshore developers.
- **Automation & Agile Practices**
  - Built Python tools for database manipulation and automated code generation, streamlining development workflows.
  - Operated in a fast-paced Scrum environment with continuous integration, enhancing productivity and maintaining code quality.

REFERENCES

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