

# Umar Fayaz

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Senior Software Engineer | Full Stack Developer | DevOps Engineer

## Professional Summary

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- 4+ years of experience with Next.js, React.js, Python, Angular, and modern web technologies (HTML, CSS, Tailwind CSS, Material UI).
- Expertise in Redux and state management workflows
- Skilled in crafting responsive, mobile-first designs with a strong focus on user experience.
- Strong understanding of data structures, algorithms, and object-oriented design.
- Experience with backend technologies like MongoDB, PostgreSQL, and JWT for secure authentication.
- Used tools like Git, Bitbucket, Azure, Jira, and Trello for collaboration.
- Implemented best practices like lazy loading, SSR, useCallback, and useMemo for enhanced performance.
- Integrated i18next for multi-language systems in web applications.
- Extensive experience in handling complex API integrations and real-time data flows.
- Ensured quality using Jest for unit testing.

## Skills

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- **Frontend Development:** JavaScript (ES6+), TypeScript, ReactJS, NextJS, Redux, jQuery, Angular, Html, CSS, SASS, Styled Components, Shadcn UI, MUI, TailwindCSS, Bootstrap, Responsive Design, Web Animations, React Native, SSR, Webpack, Babel, Progressive Web Apps (PWA), Lodash, Moment.js, Chart.js, D3.js, Aeternity UI, amCharts, React-i18next
- **Backend Development:** Node.js, Express.js, Mongoose, NoSQL, PostgreSQL, MongoDB, Firebase, MySQL, RESTful APIs, GraphQL, NestJS, Microservices, Serverless Architecture, Redis, Jsonwebtokens
- **State Management:** Redux, Zustand, MobX, Flux, React Query, Redux-Saga, Context API
- **Testing & Quality Assurance:** Jest, React Testing Library, Selenium, End-to-End (E2E) Testing, Unit Testing
- **Version Control & Collaboration:** Git, GitHub, Bitbucket, GitLab, Jira, Slack, Trello, Microsoft Teams
- **Public Cloud & DevOps:** AWS, Docker, Nginx, Jenkins, GitHub Actions, CI/CD, Server Management

## Experience

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Superwise Solutions - Remote

Oct 2023 - Present

Senior Software Engineer (Durban, SA)

- Developed and launched Buildware's SaaS platform, a robust solution for the construction industry, designed to optimize project management through features like real-time updates, live annotations, task tracking, and version history.
- Delivered a seamless user experience across web and mobile platforms by utilizing technologies such as React, Redux, and MUI to ensure efficient state management and responsive design.
- Built and implemented key features, including secure document storage, approval workflows, and real-time push notifications, to enhance team collaboration and productivity.
- Architected and optimized Buildware's backend infrastructure by creating and managing APIs with MongoDB, NoSQL, Mongoose, and PostgreSQL, ensuring reliable data storage and processing. Integrated payment systems to facilitate streamlined financial transactions.
- Collaborated with Regent Business School to develop scalable educational applications using React, TailwindCSS, Shadcn UI, and Zustand, ensuring smooth performance and functionality.

- Actively collaborated with cross-functional teams using tools like Bitbucket, GitHub, Azure, Jira, Slack, and Trello, ensuring smooth project coordination and delivery.

**Skills:** HTML, CSS, Javascript, ReactJS, TypeScript JQuery, Redux, Sass, Bootstrap, Styled Components, NextJS, Tailwindcss, MUI, Amcharts, React-i18next, Github, Git, Trello, Jira, NodeJS, ExpressJS, Mongoose, NoSQL, PostgreSQL, MongoDB, Firebase, RESTful APIs, Zustand, MobX, Flux, React Query, AWS, CI/CD, Docker

### Full Stack Developer - Hybrid Ewarenet (Islamabad, PK)

Aug 2021 - July 2023

- Led the design and development of Vaccination web applications using JavaScript, TypeScript, ReactJS and NextJS, Redux, ensuring scalability and high performance.
- Built and optimized APIs and backend services with MongoDB, NoSQL, Mongoose, and PostgreSQL, efficiently handling data processing and storage.
- Implemented frontend UIs with MUI, Tailwind CSS, Styled Components, Bootstrap, and Shadcn UI, delivering responsive and intuitive user interfaces.
- Actively collaborated with cross-functional teams using tools like Bitbucket, GitHub, Azure, Jira, Slack, and Trello ensuring smooth project coordination and delivery.
- Wrote a comprehensive unit with Jest, ensuring code reliability and high-quality releases.

**Skills:** HTML, CSS, Javascript, ReactJS, TypeScript, Redux, Sass, Bootstrap, Styled Components, NextJS, Tailwindcss, MUI, Amcharts, React-i18next, Github, Git, Trello, Jira, NodeJS, ExpressJS, Mongoose, NoSQL, PostgreSQL, MongoDB, Firebase, RESTful APIs, Zustand, MobX, Flux, React Query, Docker

### Jr. Frontend Developer - Onsite FFTech Solution (Islamabad, PK)

June 2020 - May 2021

- Developed and maintained responsive and dynamic web applications using ReactJS, JavaScript, TypeScript, and ES6, ensuring seamless user experiences across various platforms.
- Worked closely with backend developers to integrate RESTful APIs into the front end, ensuring smooth data flow and efficient performance.
- Utilized MUI, TailwindCSS, SASS, Bootstrap, and Styled Components to design and implement modern, responsive UI components that enhanced the user interface and experience.
- Applied state management solutions using Redux, MobX, and Context API to manage complex frontend states across applications.
- Improved application performance by optimizing ReactJS components, implementing lazy loading, and leveraging SSR with NextJS to ensure fast page rendering and SEO optimization.
- Collaborated with cross-functional teams through tools like Git, Bitbucket, Jira, Slack, and Trello to ensure smooth development workflows and project management.
- Participated in code reviews and testing processes, ensuring high-quality code and successful deployments.

**Skills:** HTML, CSS, Javascript, ReactJS, TypeScript, Redux, Sass, Bootstrap, Styled Components, NextJS, Tailwindcss, MUI, Amcharts, React18, Azure, BitBucket, Github, Git, Trello, Docker

## Professional Contributions

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### Buildware (Web and Mobile App)

- Utilized React with TypeScript to build a fast and modular front end, ensuring type safety, efficient component organization, and dynamic rendering for the web application.
- Developed a feature-rich React Native mobile application for Buildware using TypeScript, ensuring seamless access across devices and a consistent user experience while reducing runtime errors with robust type-checking.
- Implemented Redux Toolkit with TypeScript for efficient and scalable state management across both the web and mobile applications, simplifying the process of handling global state changes while maintaining strong typing for actions and reducers.
- Built a responsive and modern user interface using TailwindCSS, ensuring a consistent design across all devices and minimizing custom styling.
- Integrated Apryse to create dynamic, visually appealing document and data visualization tools, enabling an interactive and user-friendly experience on both web and mobile platforms.
- Developed a multi-language system to localize the application using i18next, allowing users to switch between languages seamlessly across all platforms.
- Leveraged MUI (Material-UI) to create reusable and visually appealing components for the web application, accelerating development and maintaining a consistent UI.
- Followed React and TypeScript best practices by utilizing React Hooks, including useState, useEffect, useCallback, and useMemo, with proper type annotations to optimize performance and manage complex logic within functional components.
- Designed custom hooks using TypeScript to encapsulate repetitive logic, improving code readability, maintainability, and enabling reuse across different components for both web and mobile versions.
- Integrated and handled complex API responses from the backend throughout the project, ensuring seamless data flow between frontend and backend services while leveraging TypeScript interfaces for strong typing of API data structures.
- Leveraged useMemo and useCallback for performance optimization, reducing unnecessary re-renders and enhancing responsiveness across both applications.
- Ensured high performance and consistent cross-platform design principles, providing users with an intuitive and cohesive experience on web and mobile.
- Developed automated testing pipelines using tools like Jest and React Testing Library, ensuring the reliability and robustness of the applications with TypeScript-supported test cases.
- Conducted regular code reviews and refactoring sessions to maintain clean, scalable, and maintainable TypeScript code throughout the project's lifecycle.
- Managed project tasks and tickets using Trello, tracking development progress and issues, ensuring clear communication and timely completion of milestones.
- Collaborated with the team through GitHub and Git for version control, ensuring codebase integrity and smooth project management.

**Skills:** HTML, CSS, JavaScript, TypeScript, React, Next.js, TailwindCSS, MUI, Ant Design, Redux, AmCharts, Apryse, React-i18next, GitHub, Git, Trello, Responsive Design, API Integration, Performance Optimization, and Agile Development Practices.

## Vaccination Management Web Application

- Developed the frontend using React and the backend with Node.js and Express, creating a seamless and scalable web application for vaccination management
- Utilized Shadcn UI components along with TailwindCSS to design a clean, responsive, and intuitive user interface. The dynamic components enabled easy navigation through patient records, vaccination schedules, and inventory management
- Implemented Redux Toolkit for efficient state management, handling complex application states, including user authentication, vaccination records, and patient data
- Architected the application with multi-tenancy, allowing multiple healthcare providers (tenants) to use the system independently with unique data sets, ensuring data segregation and scalability
- Integrated i18Next to support multiple languages across the application, ensuring accessibility for a diverse user base
- Implemented JWT (JSON Web Token) for secure authentication and authorization across the system, protecting sensitive user data and ensuring secure access to different modules
- Utilized PostgreSQL as the primary database, handling complex relational data such as patient details, vaccination schedules, and inventory records, ensuring high performance and reliability
- Integrated various notification methods within the application, allowing users to send reminders for upcoming vaccinations and follow-ups efficiently through a secure and user-friendly interface
- Developed interactive dashboards for managing patient records, vaccination schedules, and inventory, with filtering options, CSV download, and editing capabilities
- Implemented advanced filtering functionality for patient records and schedules, enabling users to sort data by vaccination status, patient ID, appointment date, and other attributes
- Designed responsive and dynamic data tables with sorting and pagination, ensuring that large datasets, such as patient lists or vaccine inventory, are efficiently displayed and manageable across devices
- Built modules for managing vaccination types, appointment scheduling, and patient notifications, allowing users to customize the vaccination process as per their organizational needs
- Ensured optimal performance and a smooth user experience by applying React best practices such as useCallback and useMemo to minimize unnecessary re-renders and enhance the responsiveness of the application
- Deployed both the Node.js and React applications to a Virtual Machine (VM), ensuring seamless production readiness
- Used PM2 to manage and keep the Node.js application running efficiently on the VM, ensuring automatic restarts on failure and resource management
- Deployed the React frontend using PM2 and set up NGINX as a reverse proxy, optimizing load times and handling traffic effectively
- Managed project tasks and tickets using Azure Boards, tracking development progress and issues. Collaborated with the team through GitHub and Git for version control, ensuring codebase integrity and smooth project management

**Skills:** Html, CSS, Javascript, TypeScript, ReactJS, Tailwindcss, Shadcn UI, NodeJS, ExpressJS, PostgreSQL, Github, Git, Azure

## Regent Business School

- Utilized TailwindCSS to build a fully responsive and mobile-first design, ensuring that the application was optimized for all screen sizes and devices with minimal custom CSS required
- Implemented Zustand for efficient and lightweight state management, allowing for fast state updates and a simplified global state structure, reducing boilerplate code
- Leveraged Shadcn UI components to create a sleek, user-friendly interface that enhanced the user experience and aligned with modern design principles
- Built complex forms with validation logic using React Hooks and Custom Hooks, ensuring smooth user interactions and real-time validation feedback for a seamless user experience
- Employed React best practices such as lazy loading, code splitting, and memoization to enhance the performance of the application, reducing load times and ensuring smooth navigation
- Collaborated closely with cross-functional teams using Git and GitHub, ensuring seamless version control and coordination during the development process
- Ensured consistent styling across the application by utilizing TailwindCSS utilities, Styled Components, and a design system approach, minimizing CSS duplication and keeping the codebase clean.
- Designed and developed reusable UI components, such as buttons, forms, and tables, which streamlined development efforts and ensured consistency across the application
- Integrated unit testing using Jest to ensure robust component functionality, ensuring that the application remained reliable and bug-free
- Developed the mobile version of the application using React Native, ensuring cross-platform compatibility and delivering a seamless experience on both iOS and Android devices
- Implemented React Native Hooks for managing component state and lifecycle events, enhancing the performance and usability of the mobile app
- Integrated Native Modules to handle platform-specific features, such as push notifications and camera access, providing a native-like experience
- Utilized React Navigation to implement efficient and user-friendly navigation between screens, enabling a consistent and intuitive user journey across mobile platforms
- Integrated APIs with React Native for data fetching and ensured smooth synchronization between mobile and web platforms

**Skills:** Html, CSS, Javascript, TypeScript, React, Tailwindcss, Shadcn UI, Github, Git, Azure

## Education

**VIRTUAL UNIVERSITY, WAH CANTT, PAKISTAN**

**DEC 2019**

### **Bachelor of Software Engineering**

**Relevant Courses:** Programming Fundamentals, Object-Oriented Programming, Data Structures and Algorithms, Design and Analysis of Algorithms, Theory of Programming Languages, Design Patterns in Software Engineering, Database Management Systems, Operating Systems, Computer Networks, Network Security, Cloud Computing, Human-Computer Interaction, Cybersecurity, Software Architecture, Software Testing, DevOps, Web Development, Mobile Application Development, Artificial Intelligence, Data Science, and Data Mining.