

# Hassaan Siraj

Senior Software Engineer



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## PROFILE

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**Experienced Full Stack Developer** with over **6 years** of expertise in building scalable, high-performance applications. Skilled in both front-end and back-end development, with a strong focus on **React**, **Next.js**, and **Ruby on Rails**. Adept at integrating third-party services and APIs, managing real-time data, and optimizing user experiences. Proven ability to work with cloud platforms (**AWS**), **Docker**, and **CI/CD** pipelines, ensuring smooth deployments and efficient system performance. Strong background in working with modern databases like **MongoDB** and **PostgreSQL**. Collaborative team player who thrives in **Agile environments**, participating in **code reviews**, and delivering quality, maintainable code. Passionate about building innovative, user-centered solutions for diverse industries, including **healthcare and supply chain**.

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## SKILLS

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### Front-End Technologies:

- **React:** Building interactive, responsive user interfaces with reusable components.
- **NextJs:** Implementing server-side rendering for improved performance and SEO.
- **Redux/Context API:** Managing application state and ensuring consistent data flow across components.
- **JavaScript/TypeScript:** Writing clean and efficient code for front-end development.
- **HTML5/CSS3:** Building accessible, responsive, and visually appealing web pages.
- **WebSockets:** Enabling real-time communication within applications (e.g., for chat features).
- **GraphQL:** Integrating real-time data fetching and optimized queries to the front-end.

### Back-End Technologies:

- **Ruby on Rails:** Developing **RESTful APIs** and services within a **monolithic architecture**, handling business logic, data processing, and integrations.
- **Node.js:** Building scalable, **server-side applications** using **JavaScript** for fast and efficient back-end services, handling asynchronous operations and APIs.
- **MongoDB:** Designing and managing a **centralized NoSQL database service** for scalable, high-performance data storage, and optimizing document-based data models for faster query execution.
- **PostgreSQL:** Managing **relational databases** for structured data, implementing complex queries, joins, and optimizations to ensure data integrity and performance.
- **GraphQL:** Developing **GraphQL APIs** for flexible and efficient data fetching, reducing over-fetching and optimizing queries for front-end consumers.
- **Redis:** Utilizing **Redis** for caching and improving the performance of frequently accessed data, reducing database load and optimizing response times for critical queries.

### DevOps & Tools:

- **Docker:** Containerizing applications for consistent environments across development and production.
- **AWS (Amazon Web Services):** Managing cloud-based deployment and scaling with services like EC2 and S3.
- **CI/CD:** Automating build, testing, and deployment pipelines for continuous integration and delivery.
- **Docker:** Containerizing applications for ease of deployment and scalability.
- **AWS:** Deploying applications and managing cloud infrastructure.
- **CI/CD:** Implementing automated pipelines to ensure code quality and smooth deployments.

### Collaboration & Communication:

- **Git/GitHub/GitLab:** Version control and collaboration with teams for code management.
- **Code Reviews:** Actively participating in code reviews, providing feedback to peers to ensure code quality.
- **Agile/Scrum:** Collaborating in Agile development environments, contributing to iterative and incremental delivery.

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## PROFESSIONAL EXPERIENCE

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### Focused

2022 – present | Lahore, Pakistan

#### Senior Software Engineer

- Contributed to Focused Strikes, delivering customized solutions for the **Doctors Galaxy** healthcare platform, serving doctors, patients, and health professionals.
- Focused on **front-end development** using **React** and **Next.js**, building responsive, user-friendly applications with server-side rendering for enhanced performance and SEO.
- Integrated **Redux** and **Context API** for efficient state management and data flow across large-scale applications.
- Collaborated with **design teams** to ensure pixel-perfect UI components, maintaining visual consistency and responsiveness across devices.
- Worked with **Ruby on Rails** back-end services, ensuring seamless integration of front-end components with API endpoints.
- Integrated third-party services like **Calendly** for appointment booking and **AWS Cognito** for secure user authentication.
- Implemented **Stripe** for payment processing and **Stripe Connect**, allowing healthcare professionals to link their accounts and handle payments, including automatic platform fee deductions.
- Developed a **real-time chat application** using **WebSockets** for seamless communication between users.
- Participated in **code reviews**, provided feedback on best practices, and maintained high code quality.
- Managed **CI/CD pipelines** and deployments using **Docker** on **AWS**, ensuring efficient and reliable updates.

### Validic

2020 – 2022 | remote, US

#### Software Engineer

- Integrated third-party health data sources from various devices, enabling seamless data collection and real-time insights for patients' health monitoring.
- Contributed to a **microservices-based architecture** comprising 20+ services, ensuring effective communication and scalability between different system components.
- Led the upgrade of multiple microservices from legacy versions to the latest stable releases, improving system stability and performance.
- Utilized **Docker containers** to deploy services in **AWS**, streamlining the deployment process and ensuring scalable and efficient cloud-based operations.
- Worked with **MongoDB** as the centralized database, ensuring efficient and consistent data storage across the platform, while supporting high availability and performance in a distributed environment.
- Wrote comprehensive **unit tests** and **integration tests** for all system changes, ensuring that all new features and bug fixes were thoroughly validated.
- Maintained **CI/CD pipelines** to automate testing and deployment, ensuring the successful execution of all tests before deploying new container images to production.
- Took part in **code reviews**, providing constructive feedback to peers, ensuring code quality, consistency, and adherence to best practices.

### BARQ

2019 – 2020 | remote, US

#### Software Engineer

- Worked on the **supply chain platform** responsible for managing deliveries within the same city and across different cities, ensuring timely and efficient order fulfillment with a user-friendly interface.
- Focused on **front-end development** using **React** and **GraphQL** to build an intuitive, real-time interface for tracking orders, allowing users (customers, internal teams, and third-party partners) to easily view and manage order statuses.
- Integrated **third-party applications** into the front-end to facilitate the smooth collection and transfer of orders across multiple platforms and positions, ensuring an optimized and seamless user experience.
- Developed and maintained the **order status service** on the front-end, utilizing **GraphQL APIs** to provide real-time updates on order statuses, ensuring transparency and improving tracking for both customers and internal teams.
- Worked closely with the **operations department** and various **third-party clients** to ensure the front-end was aligned with business needs and provided the required functionality for different user roles.
- Ensured the smooth flow of information between different platforms and stakeholders by designing clean, responsive user interfaces that made it easy for users to interact with the system on desktop and mobile devices.

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## EDUCATION

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### PUCIT

Lahore, Pakistan

#### BS Software Engineering