

## Hamza Mushtaq

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Highly skilled and passionate Software Engineer with a commitment to staying at the forefront of technology. Rapid learner, adept at mastering new technologies and solving complex problems efficiently. Known for delivering high-quality results in dynamic environments.

## PROFESSIONAL EXPERIENCE

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### Software Engineer

CureMD Healthcare IT, 2022 – Present

#### Responsibilities:

- **Technical Expertise** - Serve as the team's technical authority, offering guidance and support to overcome complex challenges. Stay current with emerging technologies and industry trends to boost the team's technical capabilities.
- **Research and Development** - Engage in R&D to keep up with the latest technologies, tools, and trends. Propose innovative solutions and system enhancements to improve development processes.
- **Leadership** - Mentor and guide the junior team members, ensuring clear understanding of assigned tasks and responsibilities within the Scrum framework.
- **Project Development** - Collaborate with product owners, stakeholders, and the development team to define project scope, objectives, and deliverables. Break down large tasks into manageable user stories and prioritize them based on business value.
- **Resolving Client Issues** - Demonstrate strong problem-solving skills and a proactive approach in identifying and resolving complex client issues and bugs within the application. Collaborate with the development team and stakeholders to investigate and address critical issues, ensuring timely resolution and client satisfaction.

#### Projects:

- **Global Patient Search**
  - Developed an Integratable web component using Angular framework to implement a robust and user friendly patient search feature within the application.
  - Utilized .NET 6 API as the backend framework to handle data retrieval and processing efficiently.
  - Leveraged Elasticsearch, a powerful search engine, to enable high-performance and efficient searching of patient records based on their demographic's information.
  - Designed and implemented optimized data indexing and querying strategies in Elastic Search to ensure fast and accurate search results.
  - Successfully achieved an impressive average response time of 100ms when searching through a massive dataset of 1 million patient records, demonstrating the performance and scalability of the solution.
  - Used Azure CI/CD pipelines to deploy this service on cloud servers.
- **Push Notification Service**
  - Led the development of an integratable push notification service for web and mobile platforms, enabling the delivery of important messages to clients in a timely manner.
  - Leveraged the power of .NET 6 API to build the backend infrastructure, ensuring robustness, scalability, and seamless integration with existing systems.
  - Integrated Firebase Cloud Messaging (FCM) as the notification delivery platform, leveraging its cross platform capabilities and extensive features to provide reliable and efficient message delivery.
  - Adopted a centralized architecture approach to ensure a unified and streamlined notification service across different platforms and devices.
  - Collaborated with cross-functional teams, including frontend developers and mobile app developers, to ensure smooth integration and functionality across different platforms.
  - Deployed this service using Azure CI/CD pipelines.

- **Progress Note**

- With a team of 5 developers, we developed a comprehensive application on the Angular 17, specifically designed to meet the needs of doctors in creating their patient's provider notes, prescribing medications, lab orders, radiology orders, and patient education based on the diagnosis.
- Leveraged the power and flexibility of Angular framework to create a robust and responsive user interface, providing doctors with a seamless and efficient workflow for prescribing medications and ordering diagnostic tests.
- Developed a user-friendly interface that allows doctors to easily search and select appropriate medications, lab tests, radiology orders, and patient education materials based on the specific diagnosis.
- Used AWS S3 bucket for patient clinical document storage with more secure way.
- Collaborated with UX/UI designers to create an intuitive and visually appealing user interface that enhances the user experience and facilitates smooth navigation and interaction within the application.

- **Patient Data syncing service**

- Developed a window service in .NET 7 to sync our patient's data in real-time.
- Data is being synced in our Elastic Search indices, specifically used for Patient Searching.
- Used multi-threading and a-sync architecture for better performance.
- Made that service able to work every 5 sec to sync all the data.
- In case of any issue, the service was able to restart from where it was stopped.
- Tested service performance using J-Meter.

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## EDUCATION

### **Bachelor of Mechatronics and Control Engineering**

University of Engineering and Technology, Lahore, Pakistan, 2018 – 2022

CGPA: 3.2

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## FAMILIAR TOOLS AND TECHNOLOGY

**Programming Languages:** C#, JavaScript, TypeScript.

**Backend:** .NET Technologies, Elastic Search, SQL Server, RabbitMQ, AWS S3.

**Frontend:** Angular, ASP .NET, Web Forms, HTML.

**Deployment:** Azure CI/CD pipelines.

**Testing:** JMeter, Postman.

**Tools:** Git, Github, IIS, Tortoise Git, Visual Studio, Visual Studio Code, MS Office.

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## SKILLS AND INTERESTS

Web Development, C# programming, REST API Development and Integration, System Integration, TypeScript/JavaScript Programming, Problem Solver, Quick Learner, Learning New Technologies, Testing Automation.