

Curriculum vitae

PERSONAL INFORMATION

Abdullah Farooq



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Gender Male | Date of birth 28/10/1994

WORK EXPERIENCE

Dec 2021 – Present

Chief Technology Officer (Startup, Part-time)

Gawalla, Faisalabad, (Pakistan)

Responsible for the design, development, and overall management of the products in an Agile environment. The goal was to provide high-quality milk and dairy products to customers by delivering them directly to their doorstep.

- Implemented a GraphQL code first approach for API development, reducing friction between front-end and back-end teams. (**GraphQL**, C#, Asp.net Core, Entity Framework Core, **LINQ**)
- Evaluated candidates for this startup based on skills and values, creating a more sustainable work environment. (Interviewing, Hiring, Onboarding, **Training**)
- Implemented state management on the client-side application, improving reactivity by 20%. (StrawberryShake, **Blazor**, C#, **JavaScript**, JavaScript, HTML, CSS)
- Defined MVVM architecture and developed source generators on the client side, resulting in 70% test coverage and 80% code reusability. (**Unit Testing**, **Source Generators**, Blazor, C#, JavaScript, HTML, CSS)
- Introduced GitHub copilot for improved code quality and efficiency in the team, resulting in a 20% increase in productivity and a 10% reduction in development time. (**GitHub Copilot**)
- Used low-cost arm-based virtual machines for development and testing, reducing initial development costs by 50% (**Oracle Cloud**).
- Implemented Kubernetes for easier and more scalable management of the application, resulting in a 20% decrease in time to deliver the product. (**Kubernetes**, Docker, Azure DevOps, Helm)
- Adopted an incremental microservices architecture and **Domain Driven Design** for the Gawalla product suite, improving scalability and maintainability in the long term
- Implemented a GraphQL gateway through schema stitching of all separate GraphQL services into one schema, creating a single point of connectivity for all client applications. (GraphQL, C#, Asp.net Core, Entity Framework Core, **Schema Stitching**)

Aug 2022 – Present

Principal Software Engineer (Remote, Full-time)

Tenx, Stamford, (USA)

Part of the development team at Ancera, a USA-based Series A-funded company revolutionizing cell separation and pathogen diagnostics through a product suite combining biotech, analytics, and machine learning.

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- Significantly improved application performance by optimizing SQL queries, sometimes resulting in a 20% increase in overall performance. (**SQL**, Stored Procedures, SQL Server, SQL Server Management Studio)
- Successfully designed and architected new modules for the application, resulting in a 30% reduction in time to complete features and a more efficient workflow. (**Clean Architecture**, OOD, draw.io)
- Established SQL code standards while developing an analytical mobile app, improving efficiency and reducing development overhead by 10%. This helped to streamline the development process and ensure high-quality code. (SQL, **REST API**, Swagger, Postman, **Dapper**)
- Implemented a robust migration-based strategy for database changes, adding rollback capability to migration scripts after deployment. This added an extra layer of protection and made it easier to manage changes to the database. (**Fluent Migrator**).
- Applied clean architecture principles to separate queries and commands, resulting in clean, easy-to-maintain code. This made it easier to understand and work with the codebase, improving the overall maintainability of the application. (**CQRS**, **MediatR**)
- Created a UI component library by aggregating common UI components, increasing code reuse and reducing development time. This helped to speed up the development process and made it easier to create a consistent, user-friendly interface for the application. (**Angular**, npm, Nodejs, **Typescript**)

Jun 2021 – June 2022 .Net Consultant (Remote)

Telebu Communications, Hyderabad, (India)

Implemented new features within the company's existing product suite. This product suite comprises various tools, including call center software, a chat application, and a bulk SMS-sending platform

- Successfully migrated multiple applications to a microservices architecture, resulting in improved separation of concerns and maintainability for multiple teams. This has allowed for more efficient collaboration and faster development cycles. (C#, **MySQL**, Asp.net Core).
- Developed a central auth server that greatly reduced boilerplate code and streamlined authentication processes across all company applications. This has saved significant time and effort for both developers and users. (C#, **Asp.net Identity**).
- Implemented automation to improve customer experience. Specifically, I automated the assignment of customers to agents, resulting in a 10% increase in response time. Additionally, I integrated Twitter and WhatsApp APIs to improve customer coverage and satisfaction, leading to a 20% increase in customer coverage and a 10% increase in customer satisfaction. (C#, **Windows Service**).
- Created a microservice-based chat application that significantly reduced development time and maintenance costs for implementing chat functionality on multiple products. This has allowed for faster deployment and more efficient resource allocation. (C#, **Asp.net Core**).
- Overall, my experience and skills in microservices, automation, and API integration have proven to be valuable assets in driving business success and improving customer satisfaction.

Oct 2020 – Jul 2021 Solution Architect (Part-time)

H3 Solutions, Faisalabad, (Pakistan)

Worked as an architect at a company that has clients across diverse industries including textile, human resources, and finance.

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- Successfully developed and maintained CI/CD pipelines using Gitlab, resulting in an efficient and reliable deployment process for multiple applications, which improved the overall quality of software delivery. (**Gitlab**, Yaml Scripting, Docker, **Git**, **Powershell Scripting**)
- Utilized Docker to containerize applications, making them easier to deploy and maintain across various environments, leading to improved infrastructure flexibility. (**Docker**)
- Implemented Infrastructure as Code using Terraform, enabling easier collaboration and sharing of infrastructure configurations across teams, facilitating the development of scalable and maintainable systems. (**Terraform**)
- Automated the configuration of Linux agents for CI/CD pipelines using ansible, reducing the time and effort required for maintenance, and freeing up valuable resources for more strategic tasks. (**Ansible**)
- Provided guidance on best practices for code standards, quality, and maintainability, resulting in improved efficiency and effectiveness of the development process and increased customer satisfaction.
- Improved the software development life cycle through the implementation of a Kanban board and adoption of agile methodologies, resulting in faster release times, increased productivity, and improved project management. (**Kanban Board**, GitLab)

Aug 2019 – Apr 2021 **Lead Software Engineer**

Brickclay, Faisalabad (Pakistan)

Led the development of a microservices-based product suite for the company. This product suite comprises various tools, including a reporting system, a finance system, a time tracking system, and a user activity tracking system. Notable achievements include:

- Led the development and migration of the Power BI on-prem analytical service to a multi-tenant OAuth Progressive Web App, resulting in a 30% increase in customer interaction on the portal and the removal of the NTLM limitation.. (Typescript, Angular, **GraphQL**, **Power BI on-prem**).
- Implemented a centralized Multi-tenant OAuth solution for all product suites, decreasing the cost of implementing and maintaining individual authentication functionality by 20%. (C#, **Microsoft Identity** Asp.net Core, **Identity Server 4**).
- Implemented client-side state management, reducing the number of API calls by 30% and resulting in a 20% increase in overall performance. (Typescript, Angular, **NgRx**).
- Led the Cloud and DevOps Vertical for the entire development process, providing best practices and evolving the organization towards a DevOps model, leading to early detection of issues and frequent deployments. (**Azure Devops**, **Bash Scripting**, **Yaml**, **Ubuntu**).
- Designed and implemented an end-to-end Cloud Migration Strategy for multiple critical applications, transitioning them to a Microservices architecture and reducing the maintenance cost of infrastructure. (**Microsoft Azure**, **Docker**, **Kubernetes**).
- Utilized logging and tracing to identify and fix issues in the production environment, improving the efficiency of the development team. (**Serilog Seq**).

Mar 2019 – Jul 2019 **Software Engineer**

Brickclay, Faisalabad (Pakistan)

Developed and maintained the company's existing product called Quickanalytix. Notable achievements include:

- Implementing **Power BI** on-prem server reports with OAuth authentication for seamless integration on the client side. (C#, SqlServer, Asp.net MVC, Ado.net).
- Integrated **Stripe** payment gateway to enable the company to accept payments from international customers, expanding the business to a global market.
- Leading the migration of the existing codebase to Clean Architecture, improving code readability and organization.
- Utilized **Dependency Injection** and **SOLID** principles to ensure maintainability and scalability of the codebase.
- Introduces testing and debugging using **xUnit** which results in early detection of bugs before going to production.

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Aug 2017 – Feb 2019 Full-stack Freelance Developer

Faisalabad (Pakistan)

- Successfully led the development of the Kohsaar project. This project was both a client project and my bachelor project, showcasing my ability to manage and deliver on both personal and professional commitments. (C#, Typescript, Asp.Net Core, Angular, ServiceStack, Ormlite, REST, SqlServer),
- Demonstrated engineering skills by creating an Arduino Bluetooth car (**C++**, **Arduino**).
- Developed clinical reporting software for a local client, implementing SOLID principles and GOF patterns to ensure high-quality code. (C#, **Wpf**, Material Design, **MVVM**, Sqlite).
- Created a GitHub dependency scraper, showcasing my ability to work with a range of programming languages and libraries. (Python, **Beatifulsoap**, and **Scrappy**).

EDUCATION

Jan 2014 – Feb 2018 Bachelor of Science in Computer Science

NTU, Faisalabad (Pakistan)

- Bachelor Project/Thesis: Kohsaar is a multi-vendor e-commerce platform using .Net (C#, Asp.Net Core, Angular, **ServiceStack**, **ORM lite** , JavaScript, Typescript, Reactjs).

PERSONAL SKILLS

Languages Fluent in English, Urdu, Punjabi and Hindi

- Communication skills
- Good listening skills [gained during my experience as Software Architect in H3 Solutions by providing consultancy after listening to their problems].
 - Clarity and Concision skills [achieved during working as a Principal Software Engineer of Tenx].
 - Good writing skills [obtained through writing requirement documentation and API documentation while working in Brickclay].
 - Being able to give and receive feedback [gained during my experience in Telebu Communications].

- Organisational / managerial skills
- Excellent speech and presentation [gained during my work as Principal Software Engineer in Tenx].
 - Leadership skills [gained while working as a team lead in Brickclay and Principal Software Engineer in Tenx].
 - Organized and delivered seminars on Arduino and Git at my university.
 - Excellent teamwork [obtained while managing a team of developers in Brickclay and Gawalla].

- Job related skills
- **IDE**: Lens, Rider, Visual Studio, and Visual Studio Code
 - **Code Editors**: Sublime Text, Notepad++
 - **Productivity Tools**: LaTeX, **Git**, **Slack**, Navicat, MobaXterm, MS Office (Word, PowerPoint, Visio, **Teams** and Excel) and Corel Draw.
 - **Clouds**: Microsoft Azure, Digital Ocean, Oracle Cloud, AWS

- Certifications
- Designing and Building Enterprise **Blazor** Applications , 2022.
 - **Mastering Kubernetes**, 2020.
 - **Managing Microsoft Azure Compute**, 2019.
 - Building **Microservices**, 2019.
 - Designing and Implementing Microsoft **DevOps** Solutions, 2019.
 - **Identity** and Access Control for Modern Applications, 2019.