

Curriculum vitae

PERSONAL INFORMATION

Abdullah Farooq



📍 124-B Millat Town Faisalabad, (Pakistan)

📞 +923177466697

✉ abdullah.farookk@gmail.com

🐙 <https://github.com/abdullahfarookk>

📘 <https://linkedin.com/in/abdullah-farookk>

💬 Skype [abdullah.gb_1](#)

Gender Male | Date of birth 28/10/1994

WORK EXPERIENCE

Dec 2021 – Present

Chief Technology Officer (Startup, Part-time)

Gawalla, Faisalabad, (Pakistan)

Lead the development of ongoing products suite from design, development, and management in an Agile environment. The idea is to provide quality milk and dairy products to the customers at their doorstep.

The product suite includes a mobile application, and a web application and integrates multiple domains such as e-commerce, food delivery, and finance.

- Introduced GraphQL code first approach for API development results in reduced friction between front-end and backend teams. (**GraphQL**, C#, Asp.net Core, Entity Framework Core, **LINQ**)
- Evaluated candidate for this startup based on skills as well as values resulting in a more sustainable environment for the company. (Interviewing, Hiring, Onboarding, **Training**)
- Introduced state management on the client-side application which increases the reactivity of the application by 20%. (StrawberryShake, **Blazor**, C#, **JavaScript**, JavaScript, HTML, CSS)
- Define MVVM architecture and developed source generators on the client side helped 70% test coverage and 80% code reusability. (**Unit Testing**, **Source Generators**, Blazor, C#, JavaScript, HTML, CSS)
- Introduced GitHub copilot for repeated tasks and code quality in the team resulting in a 20% increase in Productivity and a 10% decrease in development time. (**GitHub Copilot**)
- Used low-cost arm-based virtual machines Development and Testing product suite results in a reduction of initial development cost by 50% (**Oracle Cloud**).
- By introducing Kubernetes, management of the application is easy and scalable, resulting 20% decrease in time to deliver the product. (**Kubernetes**, Docker, Azure DevOps, Helm)
- Since the Gawalla product suite contains multiple domains, by introducing microservices architecture along with **Domain Driven Design**, the product suite becomes more scalable and maintainable in the long run.
- Implement GraphQL gateway through schema stitching of all separate GraphQL services into one schema resulting in a single point of connectivity of all the client applications. (GraphQL, C#, Asp.net Core, Entity Framework Core, **Schema Stitching**)

Aug 2022 – Present

Principal Software Engineer (Remote, Full-time)

Tenx, Stamford, (USA)

Help the team in the development and architecture of the product suite of USA series A funded company called Ancera. The application suite consists of multiple domains such as biotech, analytics, and machine learning.

The product is focused on cell separation and pathogen diagnostics using image processing and provides analytics using collected data.

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- Refactored SQL queries for performance yielded a 20% increase in application overall performance. (**SQL**, Stored Procedures, SQL Server, SQL Server Management Studio)
- Design and architect new modules of application results in the reduction of time to complete the feature by 30%. (**Clean Architecture**, OOD, draw.io)
- Define SQL code standards while implementing an analytical mobile app, reducing overall development overhead by 10%. (SQL, **REST API**, Swagger, Postman, **Dapper**)
- Introduced migration-based strategy for database changes results in rollback capability of migration scripts after deployment (**Fluent Migrator**).
- Implemented clean architecture by separating queries and commands resulting in clean code and easy maintenance. (**CQRS**, **MediatR**)
- Introduced the concept of aggregating common UI components into a reusable UI component library resulting in increased code reusability and reduced development time. (**Angular**, npm, Nodejs, **Typescript**)

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Jun 2021 – June 2022 .Net Consultant (Remote)

Telebu Communications, Hyderabad, (India)

Implemented a new feature in the existing product suite of the company. The product suite consists of multiple domains such as call center, customer support and CRM.

The application suite consists of multiple products such as call center software, chat application and Bulk SMS sending platform.

- Helps in the development and migration of applications to microservices and micro frontends architecture which results in separation of concerns and easy maintainability of the application across multiple teams (C#, **MySQL**, Asp.net Core).
- Implemented central auth server for all the applications of the company that results in reduced boilerplate code while writing separate authentication for each product (C#, **Asp.net Identity**).
- Automate the process of assigning customers to agents while maintaining the queue which removed the need of assigning call agents manually and results in a 10% increase in response time to customers (C#, **Windows Service**).
- Integrated Twitter and WhatsApp API to directly chat on the application results in a 20% increase in customer coverage and 10% increase in customer satisfaction through these platforms (C#, **Asp.net Core**).
- Implemented separate microservice-based chat application which can be shared across multiple websites while using a single codebase which results in reduced development time and maintenance cost of implementing chat functionality on each product (C#, **Asp.net Core**).

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

H3 Solutions, Faisalabad, (Pakistan)

- Automate deployment flow of existing applications using CI, CD Pipelines and helps in migrating the organization to DevOps model results in the reduction of time and effort of delivering software to end users by 30% (**Gitlab**, Yaml Scripting, Docker, **Git**, **Powershell Scripting**).
- Implement Infrastructure as Code using **Terraform** that results in code sharing by 30% across all cloud platforms.
- Configured Linux agent for CI/CD pipelines using **Ansible** that results in reduced maintenance effort by 30%.
- Providing guidance in defining code standards, code quality and maintainability that results in a reduction of development effort by 10% (**IOC container**, **GOF Patterns**, .Net).

Aug 2019 – Apr 2021 Lead Software Engineer

Brickclay, Faisalabad (Pakistan)

Worked in a wonderful team of developers, notable achievements are following;

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- Lead the development and **migration** of existing Quickanalytix web application to **Progressive Web App (PWA)** that results in 50% increase in overall performance (Typescript, Angular, **GraphQL**).
- Implemented centralized Multi-tenant OAuth solutions for all of the underlying product suites that results in a decrease in the cost of implementing and maintenance of individual authentication functionality by 20% (C#, **Microsoft Identity** Asp.net Core, **Identity Server 4**).
- Implemented state management on the client side which reduced the number of API calls by 30% and results in a 20% increase in overall performance (Typescript, Angular, **NgRx**).
- Leading Cloud and DevOps Vertical for the entire development process, providing best processes and practices and evolving the organization towards DevOps Model that results in early detection of issues and frequent deployments (**Azure Devops**, **Bash Scripting**, **Yaml**, **Ubuntu**).
- Designed and Implemented end to end Cloud Migration Strategy for multiple critical applications to **Microservices** architecture that reduces the overhead of maintenance cost of Infrastructure (**Microsoft Azure**, **Docker**, **Kubernetes**).
- Helps in capturing issues in a production environment using logging and tracing requests that ease the developers in finding bugs in production (**Serilog Seq**).

Mar 2019 – Jul 2019 Software Engineer

Brickclay, Faisalabad (Pakistan)

- Implemented power on-prem server reports to be fully integrated on the client side while using OAuth authentication.(C#, SqlServer, Asp.net MVC, Ado.net).
- Integrated Stripe payment gateway to receive payments from international customers.
- Helped in migrating the existing codebase to Clean Architecture.

Aug 2017 – Feb 2019 Full-stack Developer

Freelance, Faisalabad (Pakistan)

- Lead project named Kohsaar which was both a client project and my bachelor project (C#, Typescript, Asp.Net Core, Angular, Servicestack, Ormlite, REST, SqlServer),
- Arduino bluetooth car (**C++**, **Arduino**).
- Clinical reporting software for a local client while making sure code fall under **SOLID principles** and GOF patterns (C#, **Wpf**, Material Design, **MVVM**, Sqlite).
- Github Dependency Scraper (Python, **Beatifulsoap**, and **Scrappy**).

EDUCATION

Jan 2014 – Feb 2018 Bachelor of Computer Science

National Textile University, Faisalabad (Pakistan)

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

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].

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- 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
- 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.