

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. 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 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, 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 company which 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, 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 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 an 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, 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].

- 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.