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)

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.

- 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)

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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- Significantly improved application performance by optimizing SQL queries, 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**)

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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.

- I have successfully migrated multiple applications to a microservices s 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).
- In addition, I have 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**).
- I have also 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**).
- I have also 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)

- 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)

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.