

# MUHAMMAD SALMAN KHALID

SENIOR BACKEND / FULL STACK DEVELOPER

AZURE CERTIFIED DEVELOPER

## ABOUT

An accomplished engineer with 11+ years of experience in the design and development of scalable web architecture using cutting-edge technologies.

A talented, self-motivated, service-focused and hardworking individual, with vast skills and experience in Health care, Education, finance, and law firms related projects. I Worked in a self-managing and cross functional team

I possess sound technical expertise primarily in C#, .NET, React, Angular, AWS / Azure Cloud, and Big Data.

## CORE COMPETENCIES

- ◆Developing and designing the application architecture.
- ◆Proficient in designing and implementing microservices-based solutions to enhance scalability and modularity.
- ◆Hands-on experience in SDLC including Agile Scrum & Kanban methodologies. Strong
- ◆interpersonal, communication and conflict management skills.
- ◆Client interaction, and communication. Have skills to organize and build teams.
- ◆Developed and maintained backend components and services

## CONTACT INFO

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**Current Address:** Lahore, Pakistan

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## WORK HISTORY

### Senior Backend/Full-Stack Developer

Northbay Solutions, Lahore, Pakistan | July 2020 - Present

Working as a backend engineer on the design and development of cloud-based platforms empowering data-driven healthcare plans using .Net Core, Web API, NUnit, SQL server, Microsoft Azure in an Agile/Scrum development model.

- Responsible for **gathering requirements** and analyzing and then preparing system requirements specification for the solution.
- Designed and implemented **RESTful APIs** using FastAPI in **Python** and had experience on django framework
- Designed and implemented **RESTful Web APIs** using .NET Core
- Employed Task Parallel Library (**TPL**) and **multithreading** techniques to optimize API response times and enhance system concurrency.
- Significantly improved API response times by optimizing database queries
- Improved **API response** times, reducing latency by **40%**.
- Employed **client-side and server-side caching** strategies to minimize redundant data requests
- Managed complex **SQL databases**, including schema design, stored procedures and data migration scripts.
- Collaborated with **cross-functional teams** to identify bottlenecks and implement performance enhancements
- Implemented efficient data access patterns using **Entity Framework Core**, enhancing data retrieval and manipulation processes.
- Conducted regular **code reviews** to maintain coding standards.
- Proficient in **unit testing** with xUnit and NUnit frameworks for code reliability.
- Achieved a high **code coverage rate of 82%** by regularly running and maintaining unit tests
- Integrated unit testing into **CI/CD pipelines** for automation and quality
- Scrum & effort estimation (Azure DevOps)

## CERTIFICATION & ACCREDITATION

- **AZ-305:** Designing Microsoft Azure Infrastructure Solutions
- **AZ-900:** Microsoft Azure Fundamental Certification.
- **Accredited AWS Technical Professional**
- AWS Partner: **Generative AI Essentials** (Business)
- **Snowflake** hands on essentials courses (**Data Sharing, Data Warehouse, and Data Application**)
- Completing the UdeMy Course on **MERN**

## TOOLS AND TECHNOLOGIES

.Net Core, Asp.Net Web API, Asp.Net MVC, RESTful APIs,, Moq, C#, LINQ, NUnit, Dapper, Entity framework, EF Core, Swagger, JWT, TopShelf, Log4Net, SumoLogic, Node.Js, Python

Amazon Web Services (AWS), Microsoft Azure Cloud, Docker, Amazon ECS, Azure Service Bus

MERN, React Typescript/Javascript, Redux, Context Api, Angular  
GIT, TFS, JIRA, Azure DevOps, Agile methodologies, Test Driven Development (TDD), Swagger, Postman

## DATABASES

SQL/NoSQL databases: SQL Server, MySQL, MS SQL Server, PostgreSQL, Snowflake, MongoDB

## EDUCATION

### Bachelor's Degree in Computer Science

PUNJAB UNIVERSITY COLLEGE OF INFORMATION TECHNOLOGY (PUCIT)  
Lahore, Pakistan | Sept 2006 – Sept 2010

## Senior Backend/Full-Stack Engineer

Northbay Solutions, Lahore, Pakistan | March 2015 – July 2020

Worked as a **Full stack engineer** on the design and development of a web-based research platform that ensures law firms, accounting firms, corporations and other organizations stay compliant with government regulations using ASP.NET MVC, **Microservices, React, RESTful APIs, AWS Webservice** in an Agile/SCRUM development model.

- Design & development of scalable web architecture
- Identification and implementation of microservices
- Worked on the Notifications/Alerts module (**capable of performing thousands of searches**)
- Handling of multithreading using Task Parallel Library
- Improved **searches response** times, reducing latency by **60%**
- Design & implement reusable front-end components using **React**.
- Generated the Excel files using the EPPlus library for reporting and for users' activities log.
- XML and Json Parsing to parse the Data from the website
- Implemented the Rest API and used OData
- Code Reviews
- Scrum & effort estimation (Jira)

## Senior Software Engineer

Apponative, Lahore, Pakistan | August 2014 - March 2015

Worked as a Mobile developer and developed different iOS applications and games using Objective C and cocos2d.

- Path Driver for Reading: Interactive Application having assessment options for school.
- TimeBom Application: Images/Videos editor, to make videos and share with friends list

## Software Engineer

NorthBay Solutions, Lahore, Pakistan | April 2011- July 2014

Worked as a Mobile developer and developed different iOS applications and games using Objective C and cocos2d. Integrated the Facebook api and maintained the stats on leaderboard.

- MiniEmpires: Developed Top-rated strategy game (combination of Risk and Farmville)
- Wordly Wise 3000: Dynamic and interactive Application for grades 2-12 students to improve academic vocabulary.