

MUHAMMAD AFNAN

Full-Stack Java Developer - Web / Cloud-Native / DevOps / Kafka / Android

Results-driven Full-Stack Software Developer with a proven track record in designing, implementing, and maintaining robust cloud-native web applications and mobile solutions. Specialised in Backend development, Android application development, Sharepoint and proficient in DevOps practices, Micro-services Architecture, Event Driven Architecture (Kafka), 3-Tier & N-Tier Architecture. Adept at collaborating with cross-functional teams to drive project success. Known for delivering high-quality code within deadlines and optimising system performance. Strong problem-solving skills and a passion for staying updated with emerging technologies.

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Work Experience

Assistant Manager Software (DevOps)

National Transmission & Dispatch Company - Onsite
Ministry of Energy (Power Division) - National Grid

03/01/2022 to Present - 1 Year - 11 Months

Achievements/Tasks

- Played a key role in the World Bank-funded ERP/ICT program at NTDC, a project involving over 15,000 employees, in collaboration with Siemens, Systems Limited, and PWC (PMQA)
- Engaged with consultants and vendors to gather project requirements and comprehensively understood the business needs in order to prepare, Functional Specification Documents (FSDs), and Technical Design Documents (TDDs)
- Collaborated with Systems Limited and PWC on an Enterprise Content Management (ECM) initiative, successfully implementing document storage solutions and departmental portals using Microsoft SharePoint and to establish a seamless process for storing SAP ERP documents and content in Microsoft SharePoint by leveraging SAP PI/PO and SharePoint REST API integration
- Led the integration of third-party applications with SAP ERP, including SCADA, Biometric attendance machine, Grid Station Operation and Tripping Monitoring System with SAP PI/PO, streamlining data exchange
- Successfully implemented seamless SMS Metering integration using Apache Kafka within a Spring Boot application, facilitating real-time data streaming and enabling an event-driven architecture
- Introduced DevOps practices, leading to a 50% reduction in deployment time in collaboration with our in-house development team
- Conducted training sessions for over 500 employees on office automation as a crucial component of change management

Web & Application Developer

National Center of GIS & Space Application - Onsite
Institute Of Space Technology - Ministry Of Defence

02/04/2021 to 02/01/2022 - 9 Months

Achievements/Tasks

- Experienced as a full-stack web and app developer, responsible for developing entire websites & Portal from scratch based on business requirements and integrating them with existing applications
- Responsible for leading User Acceptance Testing (UAT) sessions with clients and seamlessly incorporating their feedback and requested changes
- Responsible to hand over the technical and application knowledge to train the end users

Skills

Programming Languages

Java Kotlin C# C++ C Javascript

Web Development & Frameworks

SpringBoot Microservices ApiGateway Zipkin Eureka Kafka Swagger
MinimalAPI DotNetCore ActiveDirectory Sharepoint Node ExpressJS
React Ajax HTML CSS Bootstrap YAML JSON Postman RestAPI

Database

MySql MongoDB Oracle NoSQL T-SQL Hibernate SQLServer
EntityFramework StoreProcedures AzureSqlEdge

Android Native Development

Android Java Kotlin Dagger Epoxy CleanArchitecture MVVM
MVP Jetpack Room SSR Retrofit Picasso EventBus LiveData

Cloud

AWS Azure Firebase Heroku Github GitLab Microsoft365

DevOps Tools

Docker Kubernetes ArgoCD CICD Jenkin Git Github Linux Jira

Key Highlights

- ✦ Over 5+ years of experience in designing, developing, and testing web applications and native Android apps
- ✦ Staying updated with emerging trends and technologies in DevOps and cloud computing, including expertise in installing and configuring Kubernetes using Kubeadm on AWS VM
- ✦ Proficient in designing and developing tiered web applications following Agile practices, utilizing Microsoft .NET framework, C# Web API, Spring Boot, Node.js, Kafka, microservices, Linux, AWS, Postman, Swagger/OpenAPI, and Git/GitHub for version control
- ✦ Deployment of web applications using multiple tools, including GitHub for Version Control, Jenkins for CI/CD, Docker for containerization, Kubernetes for container orchestration, and ArgoCD for GitOps for cluster monitoring and continuous delivery
- ✦ Proficiency in programming languages: Java, C#, Node.js, React, HTML/CSS, Bootstrap, HTML5, jQuery, JavaScript, JSON, Rest APIs, SharePoint, SharePoint Designer Workflows 2013, PowerShell, SQL Server, MySQL, and MongoDB

Web & Application Developer

COMSATS Software Solutions Islamabad - Onsite

Ministry of Information & Technology

29/06/2020 to 01/04/2021 - 9 Months

[Achievements/Tasks](#)

- Served as a Lead Android Developer and a valuable member of the backend team, contributing to the successful execution of numerous Government and International projects across UK,UAE
- Implemented industry-standard development practices to enhance the maintainability and extendability of applications
- Designed and developed a comprehensive application from the ground up, utilizing the MVVM architecture with a Single Activity structure.Implemented Rest API Integration, integrated Google Location/Map API, Firebase services, and integrated payment gateways such as Stripe and Paypal for seamless functionality
- Mentored team members, and actively contributed to the team's growth and development

Mobile App Developer

800-Pharmacy Dubai, United Arab Emirate -

Onsite

25/10/2019 to 14/06/2020 - 8 Months

[Achievements/Tasks](#)

- Designed and built e-commerce pharmacy applications from scratch for Android platform, and collaborated with cross-functional teams to define, design, and launch new features and successfully deployed to playstore with 50k+ downloads
- Design and develop a large-scale E-Commerce, visually appealing, modular Android application capable of integrating multiple custom libraries and securely uploading data to servers asynchronously on a frequent periodic basis
- Successfully deployed an app on the Android App Store and supported the app for multiple Android OS releases
- Developed and tested push notifications functionality
- Integrate App with Network International Payment Gateway

Web & Application Developer

KPK Travels Dubai, United Arab Emirate - Onsite

01/01/2019 to 24/10/2019 - 10 Months

[Achievements/Tasks](#)

- Developed new features for existing Android applications used on phones and tablets, worked with developers to develop top tier solutions for Airline customers
- Successfully Integrated App with Travels Port REST API
- Developed application that are compatible with Android versions 6 and above

Web & Application Developer

Cosmosoft Business Solutions Lahore - Onsite

01/02/2018 to 30/12/2018 - 11 Months

[Achievements/Tasks](#)

- Responsible to develop & manage the projects development team working as onsite & offshore within the estimated timeline with multiple projects from Middle East
- Collaborated with cross-functional team to implement new features

- ✦ Experience working in sprints and release cycles, managing sprint backlogs, and participating in sprint planning and retrospective meetings to improve project delivery
- ✦ Diverse development experience across different sectors, including E-Commerce, Travel & Tourism, Healthcare, Real Estate, Corporate, and Government Departments (Power sector, Space Technology, and COMSATS) in the Middle East, Europe, and public and private sectors
- ✦ Proficient in developing native Android apps using Java/Kotlin, MVVM, MVP, Dagger2, Retrofit, XML, two-way Data Binding, Navigation Components, SQLite, Room, Google Maps, server-side rendering (Epoxy Airbnb), API integration, and payment gateway integration with PayPal, Stripe, Network International, Firebase, WebSocket, and Socket IO
- ✦ Familiarity with attending client meetings, handling user requirements, and bug fixing
- ✦ Excellent communication, collaboration, and presentation skills
- ✦ Excellent analytical and problem-solving skills
- ✦ Working expertise in Team environment and managing tasks across different geographical locations with parallel project development

PROJECTS

ECM, E-Governance & Portals - Government

National Transmission & Dispatch Company

- Back-end development with .NET Core Web API, SharePoint, and 3-tier architecture (WFE, App, and DB layers). I've created custom site templates, web parts, workflows, managed Active Directory, and conducted SQL Server database modelling

NCGSA Website & Content Management System

National Center of GIS & Space Application

- Worked as full stack web & app developer and develop & maintain company website from scratch using React, .Net Core, SQL Server

800-Pharmacy E-Commerce App - Medicine Delivery

Marina Group of Pharmacies Dubai UAE - Onsite

- Design & Developed E-Commerce App where customer can view products, order medicine and track order on real time
- Integrated location based services using Google Maps API to display locations of Riders & real time tracking using socket.io
- Worked with Firebase and implement push notifications on apps
- Worked on Google Maps API for location tracking, places API
- Experience with offline storage, threading, and performance tuning
- Integrate App with Network International Payment Gateway

KPK Travels App - Travels & Tourism

Akbar Group of Travels Dubai UAE - Onsite

- Worked onsite on UAE based travel app as full stack developer on existing application using Java,MVP, Dagger2, Room and integrated with Travelport Rest API ,fixed bugs & add new features
- Design, Developed Rest API using Spring Boot for app integration

- Proposing efficient and scalable solutions for client requirements
- Responsible to conduct the UAT sessions with client and demo the incorporated changes

Internship / Part-Time Job

Android Trainer

Zabeel International Institute Dubai - onsite

10/05/2019 to 03/01/2020

Achievements/Tasks

- I have successfully trained over 100 trainees in advanced Android app development, including comprehensive instruction on integrating backend APIs and Firebase.

Android Internee / Part Time Job

ZTABS Enterprise Solutions Abbottabad - Hybrid

10/01/2016 to 03/03/2017

Achievements/Tasks

- Worked on existing apps small-medium projects from freelancer US base clients and company products
- Fixed bugs and improved performance in the existing projects

Trainings / Workshops

- **DevOps Training**
Dice Analytics 8 Weeks/Online
- **Full Stack App Development - Onsite**
KP IT Board Peshawar 3 Months/Onsite
- **Web Development**
COMSATS IT Center 2 Months/Onsite
- **Mobile App Development**
ZTABS Enterprise Solution 2 Months/Onsite
- **Galileo for Travel Professional**
Travelsport UAE 3 Days/Onsite

Education

BS Software Engineering

COMSATS University Abbottabad *March 2014 to Jan 2018*

Rightmove Real Estate App UK - Sell & Buy Property

COMSATS Software Solution - Offshore Development

- Developed UK based complete Real Estate application from scratch where customer can buy, sell & rent property by using Kotlin, MVVM, Dagger2, Firebase,
- Design & Developed Rest API using Spring Boot for app Integration
- Integrate apps with Rest API, Google Location/Map API, Firebase

Dreamshopping E-Commerce App - Android

COMSATS Software Solution - Offshore Development

- Add new features to existing e-commerce app, fixed bugs and improving application performance
- Integrate app with Rest API, Google Location/Map API, Firebase
- Successfully integrated app with payment gateway Stripe & Paypal

Shipster - Delivery Management Software

COMSATS Software Solution - Offshore Development

- Developed complete delivery management application (Web & Android) with real time tracking drivers and order management
- REST API development using Node Js, Express Js for external app integration, React for Frontend, MongoDB as database
- Developed Android App for Driver & Customer App using kotlin, MVVM, Room, 2 way data binding, Dagger 2, Room, SQLITE, Firebase and real time tracking using Socket.io & API Integration

SARP - ERP Integration

Cosmosoft Business Solution Lahore - Onsite

- Design & Customize existing web application using ASP.NET MVC, SQL Server and mobile app using XML, java, SQLite

Invoice Quickly Web App - SaaS based invoicing

ZTABS Enterprise Solution USA - Offshore Development

- Invoice Quickly is a SaaS based invoicing platform which helps freelancers, small/medium sized businesses and self-employed people create and send invoices
- Design and Develop Rest APIs using ASP.NET MVC for external application integration

Profile App - Implementation of DevOps Tools (R&D)

- Developed a personal project containing dockerized images for different types of applications and the best practices for creating docker images deployed to AWS Clouds using DevOps/GitOps tools like Git, Github, Docker Containers, Jenkins, Kubernetes, Helm, Terraform & ArgoCD