Muhammad Azeem

Mobile and Backend Application Developer

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Profile

I am a full-stack software developer with more than 6 years of experience and special interest in mobile applications and backend services.

My brief summary of points is as below:

- Professional iOS, Android & React Native app development experience from scratch to production including backend services. Also working with ReactJS for the frontend for past 1 year.
- Advanced knowledge of Java, Objective-C, Swift. Intermediate knowledge of HTML, CSS, Javascript, Python. Working knowledge of C#, C, C++.
- Experience in developing backend rest based web services (Spring/Django/Play/ExpressJS).
- Extensively worked with cloud-based environments like AWS and tools like Docker and Vagrant. Have good knowledge of microservices architecture.
- In-depth knowledge of design patterns, algorithms and data structures.
- Team player with the ability to work independently as well and self-motivated.
- Familiarity with software development cycle and agile methodology.

Work Experience

- **Senior Software Engineer at _Mastercard_** (June 2016 to present)

Working as a senior software engineer for mobile (iOS/Android) applications, frontend and backend services.

Achievements

- Working on frontend (ReactJS)/backend (Java) of Mastercard developer zone and API platform.
- Developed Masterpass QR SDK for iOS in a tight timeframe allowing Mastercard to deliver ahead of its competition. The SDK is available on Github and currently being used by several banks in India and is part of BharatQR initiative from Indian government.
- Managed Masterpass QR SDK for Android and developed several Android apps for multiple clients showcasing various use cases of Masterpass QR.
- Developed several apps for iOS and Android while also developing backend services for those apps.
- Won Digital Innovator Award and multiple H.E.A.R.T awards based on my performance and ideas.
- Won TakeInitiative 2016, an innovation program, which contributed to the idea of launching of Masterpass QR in India.

- **Lead Mobile Engineer at _Healint_** (May 2015 to May 2016)

Worked as a lead iOS engineer and as a senior Android developer for Migraine Buddy app. Developed backend web services.

Achievements
- Lead iOS app development on Migraine Buddy iOS, a 5-star rated migraine recording app in app store.
- Implemented sensor data gathering in iOS to track sleep for better patient understanding.
- Came up and implemented new feature of sharing app via links on social media which in turn increased app's five-star ratings by 24% on iOS and 28% on Android increasing app discoverability and downloads.
- Worked as a senior Android engineer on Migraine Buddy Android, a top rated migraine recording app.
- Development of Java based backend system in Play framework with AWS (Amazon Web Services).
- Development of Akka based actor systems for Migraine Buddy backend.
- Development of Django based web dashboard which allows the customers to see the impact of drugs and other related statistics of the patient.

- **Software Engineer at _Safarifone_** (July 2014 to April 2015)

Worked as a software engineer. The work was related to telecom focused applications with development on mobile applications and also on the core backend systems.

Achievements
- Managed full development cycle of mobile apps and their backend services.
- Implemented iOS & Android apps in Xamarin C# using MVVMCross and Xamarin Forms.
- Implemented backend services in Node.JS with ExpressJS framework and MongoDB as database.
- Worked on core modules i.e billing, mobile payment and clearing house system in C and on CentOS. Implemented a Node.JS module which served as an SDK for Moneris mobile payment gateway

- **Lead Mobile Developer at _SevenKoncepts_** (November 2013 to July 2014)

Worked as an iOS/Android developer. Responsibilities included managing and developing projects from scratch while ensuring quality of the product.

Achievements
- Developed various mobile apps independently in both iOS & Android based on requirements from client.
- Provided design concepts for apps and implemented them.

- **Executive IT at _Ufone_** (July 2013 to October 2013)

Worked as an integration developer using IBM integration toolkit and message broker.

Achievements
- Worked on high availability and mission critical systems in a top telecom provider of Pakistan.
- Developed Value Added Services Admin Module for Ufone using IBM BPM along with ASP.NET in the backend and Telerik controls on the frontend. It allowed them to manage VAS partners and operations.
- Implemented an HLR provisioning layer in IBM Broker and Java in a short amount of time. It allowed Ufone to perform required requests to HLR in a multi-threaded environment. Robust and easily extendable for additional commands.

- **<u>Software Engineer at *Vocal Matrix*</u>** (July 2012 to July 2013)

Worked as a software engineer on iOS and desktop applications.

<u>Achievements</u>

- Developed a generic 3D OBJ ModelViewer in C which was considerably faster than other implementations available publicly at the time. It supported OpenGL ES 1.1 and 2.0 and was able to load most of the OBJ models.
- Developed iOS game applications for both iPhones and iPads.
- Modified Kodi (open source media center, formerly XBMC) to make it support Android set-top boxes with custom hardware.

Education

BS in Computer Science — 3.96 CGPA
International Islamic University Islamabad, Pakistan (2008 - 2012)

Portfolio

- Mastercard Developer Zone: https://developers.mastercard.com
- Mastercard API Platform
- Migraine Buddy (80K DAU as per 2016):
    - iOS (https://itunes.apple.com/us/app/migraine-buddy/id975074413?mt=8)
    - Android. (https://play.google.com/store/apps/details?id=com.healint.migraineapp)

Technical

Languages:
Java, Objective-C, Swift, Python, Javascript, C, C++, C#

Frameworks:
iOS, Android, React Native, ReactJS, Node.JS, Play Framework, Django, Xamarin, ExpessJS, Espresso, Webpack, JUnit, Mockito, Cocos2D, Box2D, MongoDB.

Tools and IDEs:
Xcode, IntelliJ Idea, Docker, Visual Studio, Eclipse, Git, Jenkins, JIRA, AWS, IBM BPM, IBM IIB