

# SADIA GHANI MALIK

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Team player software engineer having 6 years of experience in developing a robust application for financial businesses that includes backend services (.Net, Dotnet Core), mobile apps (Android), POS applications (Android), and web applications (ASP.Net).

## EXPERIENCE



### WEMSOL PVT (LTD.)

Full time – 6 yrs. – Mar'16 to Apr'22  
Karachi, Pakistan

#### SOFTWARE DEVELOPMENT MANAGER

JUL 2020– APR 2022

- Developed and maintained efficient, reusable, and reliable applications.
- Translated business requirements into functional features and products.
- Supported team members, fostering skill development, troubleshooting, and providing mentorship.
- Conducted code reviews and performed debugging tasks.

#### SENIOR SOFTWARE ENGINEER

JUL 2019 – JUN 2020

- Created software design and architecture.
- Enhanced system architectures to ensure optimal solution implementations.
- Designed database architecture and documented changes and their impacts.
- Collaborated closely with team leads and managers to achieve objectives.
- Worked collaboratively with the internal team to ideate and develop new products.
- Conducted code reviews and performed debugging tasks.

#### SOFTWARE DEVELOPER

MAR 2016 – JUN 2019

- Develop software solutions by studying information needs, system flows, investigating problem areas and following the software development life-cycle.
- Improving system architectures for best solutions implementations.
- Designing database architecture and documenting changes and impacts.
- Work closely with team leads and managers to achieve goals.
- Collaborate with team to brainstorm and create new products.
- Research and implement the optimization and tuning of high-cost SQL Queries.
- Debugging and fixing potential issues and system vulnerabilities.

## EDUCATION

AUGUST 2019 - JUNE 2023

**MASTER OF SCIENCE IN DATA SCIENCE**, FAST NATIONAL UNIVERSITY OF COMPUTER AND EMERGING SCIENCES (FAST NUCES), KARACHI, PAKISTAN

- CGPA: **3.93**

JANUARY 2012 - DECEMBER 2015

**BACHELOR OF SCIENCE IN COMPUTER ENGINEERING**, SIR SYED UNIVERSITY OF ENGINEERING AND TECHNOLOGY (SSUET), KARACHI, PAKISTAN

- Received merit-based scholarships in each semester for achieving top positions.
- Upon securing the first position in the Computer Engineering department with a CGPA of **3.89**, I was bestowed with recognition and rewards:
  - Gold medal from Sir Syed University of Engineering and Technology
  - Gold medal from The Institute of Engineers, Pakistan (IEP)

## TECHNICAL SKILLS

### Programming Languages

- C#
- Java
- Python

### Database

- MS SQL

### Frameworks

- .Net
- .Net Core

### Services

- WCF
- REST Services
- Web service
- Windows Services
- Socket Server

### Architecture

- Microservices
- Layered Architecture

### Version Control

- TFS
- Gitlab

### Other Tools

- Sonar Qube
- New Relic
- Postman
- SOAP UI
- ALTOVA

### Task Management Tools

- Open Project
- Jira

## PROJECTS

### POS ACQUIRING, (ANDROID, C)

Provided payment solution for merchants on 8210, 8110, 9220 devices.

- Made android based payments application for 9220 devices.
- Performed certifications of different associations.
- Integrated Euronet as a host on ISO 8583 standard.
- Integrated different APIs, for transaction tracking (Alerting Services), for discount management.
- Bug fixes for 8210 and 8110 devices application developed on C language.

## MAIN FEATURES AND INTEGRATIONS

<u>ASSOCIATIONS</u>	<u>SERVICE PROVIDERS</u>	<u>MAIN TRANSACTIONS</u>
<ul style="list-style-type: none"><li>• PayPak</li><li>• UnionPay</li><li>• MasterCard</li><li>• Visa</li></ul>	<ul style="list-style-type: none"><li>• Euronet</li></ul>	<ul style="list-style-type: none"><li>• SALE, VOID (via Scan), PREAUTH, SALE COMPLETION, SETTLEMENT (All above transactions via NFC, CHIP, SWIPE, MANUAL INPUT)</li></ul>

### KEENU LOYALTY, (ANDROID, C)

Provided loyalty programs for merchants on 8210, 8110, 9220 devices.

- Made android based loyalty application from scratch for 9220 devices.
- Integrated backend APIs (Loyalty Management System).
- Implemented Scan, NFC, Chip, Swipe modules for transaction completion.

## MAIN FEATURES

- Sale
- Redemption
- Balance Inquiry
- Settlement

### MERCHANT WALLET, (.NET CORE)

E-Wallet system made for merchants to charge money from their customer on item purchase, by using EMV QR Standards i.e. customer presented or merchant presented.

- Developed backend services that included structuring the architecture in .Net Core.
- Being a part of database structuring and designing.

### KEENU WALLET, (.NET, IONIC)

E-Wallet system that enables users to perform their transactions via wallet such as; Add Money, Funds Transfer, Bill Payments, Scan N Pay, Retail/NFC Payments, Online Payments, Buy Insurance, Buy Tickets.

- Revamped and maintained backend services that included structuring the architecture in WCF services.
- Integrated multiple APIs mentioned below.
- Developed windows services for rewarding points, SMS/email alerts, IBFT Cash Out, Centralized Finance Reporting System (CFRS), created SQL jobs for points expiry.
- Telco's, Vouchers, Utility Bills, Donations are implemented by using Bill Payment System.
- Socket server implemented for performing retail payments.
- Worked on optimizing the database.
- Initially worked on the mobile application on IONIC framework.

## MAIN FEATURES AND INTEGRATIONS

<u>FEATURES</u>	<u>INTEGRATION</u>
<ul style="list-style-type: none"><li>• Cash Deposits / Bank Transfer</li></ul>	: Bank AL Habib / Meezan bank
<ul style="list-style-type: none"><li>• Biometric</li></ul>	: Bank AL Habib / Nadra / Meezan bank
<ul style="list-style-type: none"><li>• Debit Credit</li></ul>	: HBL Cybersource, UPOP

- Buy Tickets : Easy Tickets
- Buy Insurance : Smart Choice
- Retail NFC / Card Linking : Vaulsys
- 1 Bill Topup : 1 Link, Kuick Pay
- Push Notifications : One Signal
- Book a Ride : Uber
- SMS/Email Alerts : EOcean
- Add Money : 1Bill, KuickPay

### **FRAUD MONITORING SYSTEM, (.NET)**

Banks monitor real-time transactions pushed by Euronet in batch-wise order.

- Maintained backend web services and added new modules on UI based on ASP.Net.
- Worked on optimizing the database.

### **BILL PAYMENT SYSTEM, (.NET)**

Telco's, Vouchers, Bill payments and Donation implemented by integrating Nadra, Novatti, 1Link services.

- Maintained backend services and added new modules.
- Developed windows services for auto bill payment inquiries.

### **SCAN N PAY MOBILE APPLICATION, (ANDROID / .NET)**

In-store payments are made via scanning merchant's static/dynamic QR codes. Payments made via fingerprint verification or via Passcode by Keenu Wallet.

- Developed backend service based on WCF.
- Developed android based mobile application.

### **ASKARI MOBILE APPLICATION, (.NET / ANDROID)**

A User-friendly mobile application allows users to access their Askari bank account(s).

- Bug fixing of android based mobile application.

## **CERTIFICATIONS**

- Android Application held in AMI Apex, **January, 2015 – May, 2015**
- .Net held in Sir Syed University of Engineering and Technology, **February, 2014 – April, 2014**
- Html5 held in Sir Syed University of Engineering and Technology, **May, 2013 – September, 2013**