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# IMRAN BILAL SOLANKI

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Software Engineer having 12 years of experience in different domains. My work experience includes design/architect/implementation of back-end systems using the Agile framework, Planning and shipping features, code reviews, mentoring/coaching team members and communication with respective stakeholders.

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## Skills

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### Technogise

- Technogise is a leading technology consulting and software development company specializing in innovative solutions and cutting-edge software products.
- Created a holistic 2023 internship program covering clean code, version control, TDD, agile practices, and team collaboration. Tailored the curriculum to diverse team needs, addressing onboarding challenges and promoting comprehensive development skills.
- Client: PineLabs
  - Pine Labs is an Indian company that provides point-of-sale and payment systems.
  - Tech Stack: Kotlin, AWS, LoyaltyRewards connector, Kotest, Redis, PostgreSQL
  - Design & Implementation of Refund payment system
  - Support new mode of payment in the existing payment gateway - Pay by points
  - Refactor core systems to support payments using one or more payment modes - Card, Card and Points, UPI etc
- Client: Shippit
  - Shippit is an Australian-based shipping and logistics company, that simplifies and optimises delivery solutions for businesses.
  - Tech Stack
    - Language and framework: Ruby on Rails, Docker, AWS, PostgreSQL, Buildkite, DataDog etc
    - Observability and monitoring
  - Collaborated with a diverse range of couriers, including Uber, Hubbed, New Zealand Post, Sherpa, and others. Primarily focused on handling feature requests, and change requests, and providing monitoring and support, enhancing operational efficiency within the logistics and shipping industry.
  - Implemented observability and monitoring to proactively detect carrier API errors (HTTP 5xx), enhancing error handling. By evaluating the ratio of 5xx to total API responses per carrier per action within dynamic rolling windows and applying severity-based thresholds, this solution effectively minimizes disruptions, ensuring uninterrupted service for large-scale operations.

### GS Lab/Back End Development

- Avaya NGM (Next gen management). Avaya is an American multinational technology company specialising in business communications, specifically unified communications (UC), contact centre (CC), and services. The project is about the development of NGM products for the CC unit.
- Design and implement features using Spring Boot, Kafka and cloud technologies.
- Design and implement different CECs (standard engineering criteria).
- Implemented web services as part of MDM Policy server implementation.
- Implemented complete Backend for ConnectMe project providing token-based security to REST APIs.

*Tools & Technologies: Spring Boot, Spring AOP, MDC, YAML, Swagger, Rest API, Open API, Kubernetes, JUnit.*

### Medly Tech/Digital Pharmacy

- Medly is a full-service, digital pharmacy that offers free prescription delivery for all types of medications
- I lead the Delivery Platform team which champions effective, efficient ways to store, retrieve, group, and route prescriptions and delivers convenience to patients
- Tech Stack
  - Language and framework: Kotlin, Micronaut, Amazon Kinesis, Amazon SQS, Gradle, OnFleet, Github actions etc
  - Followed test pyramid
  - Alarm and monitoring
  - Event-Driven Architecture
  - Serverless
  - CCD architecture
- Small wins
  - Enhancements to OnFleet integration
    - increased delivery from ~42 to 60 under a minute
    - improved integration of OnFleet Webhooks to achieve robustness
  - Activity Log
    - built an audit trail for Rx delivery
    - improved the logistics operation journey
  - Authorised Drop off
    - Architected solution for delivering Rx in the absence of the patient
  - PharmOS integration
    - Reducing 3rd party dependency (PrimeRX)
- Team Contribution
  - Coaching and mentoring
  - Knowledge/Context sharing and finding/prioritising broken windows in Code
- Company Contribution
  - Member of different initiatives group - AWG (architectural working group), Engineering Leads sync
  - Seminar on 'Improve application architecture performance'
  - Contribution to different RFCs

### Android Development

- The work experience includes creating & managing SmartPhone & Tablet compatible Android applications within the domain of HealthCare, Antivirus, MDM, Smart Home, Audio/Video Calling, Video Surveillance, IoT, Device Monitoring etc.

*Tools & Technologies: Android SDK, Kotlin, Android NDK, Amazon Cognito SDK, Data Binding, Firebase, GSON, LeakCanary, MVVM, MVP, Retrofit, RxJava, RxAndroid, Material Design, WebRTC, Kaltura, Avaya CSDK, Fitbit APIs, Microsoft Emotion API, Google APIs, FFmpeg, Gradle, Beacon etc*  
*Testing: JUnit, Mockito, Espresso*

Python 2.7, Flask framework, SQLAlchemy, SpringBoot, STS, Maven, Apache Tomcat etc

## Bot Development

- Created and Integrated Voice and Chatbot for Retail and Smart Mall applications.

Tools & Technologies: XMPP, API.AI etc

## MDM

- Working knowledge of Android MDM applications.
- Working knowledge of MDM Policy Server for Samsung and Windows phones.

Tools & Technologies: Samsung Enterprise SDK(3.0,4.0), Samsung Knox SDK, Samsung/Windows MDM Protocols, Python 2.7, Flask Web Service framework, ORM, MySQL database, Sublime Editor, Charles Proxy, Version One, SVN, Bugzilla etc

## IoT

- The product that allows creating the perfect ambience at home and can manage electronic appliances.
- The overall development of Plug which works on WiFi socket capable of operations like Search/Configure/Add plug, Turn On/Off, Set timing.
- The overall development of the Mobile application by designing custom protocol for metering domain and collaborating with cloud & hardware team to develop a protocol that ensures minimum operation time.

Tools & Technologies: OEM Plug SDK, XMPP Protocol, MPAndroid Chart etc

## Android Automation

- Working knowledge of Android automation framework to test applications during the development process.
- This generates a report which gives details about the total number of test cases that passed/failed, memory usage, CPU usage per test case of application etc.

Tools & Technologies: Android Test Framework, TestNG APIs, ADB command line utility etc

## Work experience

Dec 2022 - Present

### Technology Consultant

#### Technogise

- ✓ Working as a technology consultant.
- ✓ Driving and executing the internship-2023 program for the developer role.

Oct 2021 - Dec 2022

### SDE III

#### Medly Tech

- ✓ Led the delivery platform team to achieve operational excellence to achieve delivery of prescriptions to patients.
- ✓ The goal of this project is to create tools to increase the efficiency and accuracy of the delivery of prescriptions.
- ✓ The delivery department has multiple workflows (picker, bag packer, check-in/check-out, driver, delivery coordinator), all of which are aimed at getting prescriptions in hand as quickly and efficiently as possible.

Sept 2018 - Oct 2021

### Lead Software Engineer

#### GSLab

- ✓ Worked on Avaya NGM product's back-end. Avaya is an American multinational technology company specialising in business communications, specifically unified communications (UC), contact centre (CC), and services. The project is about the development of NGM products for the CC unit.

Tech Stack: Java, Spring Boot, Kafka, Postgres, Kubernetes, Microservices architecture, Azure, JUnit etc

March 2016 - Aug 2018

### Senior Software Engineer

#### GS Lab

- ✓ Lead Android and iOS teams to develop a minimum viable product for Sonde Health. The product is recently demoed to Jeff Bezos(CEO-Amazon). Sonde Health is a digital medicine company developing voice-based technology platforms to transform the way we monitor and manage mental and physical health.

- ✓ Worked on the application as part of Video Surveillance solution of Cisco which involves complex multi-tenant solution understanding, setting up the development process for the mobile team, feature proposals, R&D and bug fixing.
- ✓ Worked on a team from the beginning which created an IoT based solution that required custom protocol design and implementation and constant collaboration and engagement with Embedded/Cloud team and product owner to develop best quality mobile application.

- ✓ Worked on "Smart Solutions" for Retail and Healthcare segments which were created using Avaya infrastructure and technologies within the VoIP domain. Created prototypes using Avaya Breeze CSDK & SnapIns which were successfully demoed at Avaya Gitex(Dubai) and Avaya Engage(LasVegas) events.

- ✓ Worked on feature implementation and bug fixing for Web RTC based video communication solution for senior citizens and ageing population.

- ✓ I also mentor and guide developers as part of project induction and training within the team.

PlayStore Links - [Cisco VSM](#), [OptaCareLLC](#), [GSLab Solutions with Avaya @Gitex2016](#)

Avaya Hackathon Media Coverage - [Telegraph India](#), [ZeeBusiness Coverage](#), [IDGConnect](#)

Sonde Health - [MIT News](#), [MARS-Jeff Bezos](#)

June 2012 - Dec 2015

### Software Engineer

### *Spring Computing Technologies Pvt. Ltd.*

- ✓ Understanding and gathering Project Requirements
- ✓ Designing the architecture and implementation of MDM policy server (implemented in Python-2.7)
- ✓ Understanding Requirements as well as BYOD, MDM, IoT terminologies
- ✓ Designing the architecture and implementation of Android applications; considering version compatibility, CPU performance, memory consumption & feature usability
- ✓ Enhancing UX of applications
- ✓ Improving qualities of the product by fixing issues in build (critical, major and enhancements)
- ✓ Wrote build scripts to automate the build creation process, thereby decreasing the build time drastically
- ✓ Supporting QA Automation engineer by working as an R&D engineer and to do application profiling

PlayStore Links - [MyDevices](#), [SmartDevices](#), [QuickHeal-Mobile](#), [QuickHeal-Tablet](#)

Jan 2012 - May 2012

### Intern Software Developer

#### *Media Magic Technologies*

- ✓ Integrated FLAC encoding scheme into existing driver
- ✓ Used WinDBG to debug issues and BSODs
- ✓ Used Wireshark to analyse network packet transmissions
- ✓ Used MFC to do UI development tasks (Setting, Configuration screens etc)

## Achievements

### Winner pan India Avaya Hackathon 2017

My team 'DigiCrafters' won the first prize in the pan India Avaya hackathon 2017 to build a next-gen Android-based communication-enabled application powered by Avaya Breeze platform, Zang Cloud and Vantage devices.

### Pat On the Back

Certificate comment - "Great team spirit and tireless work ethics to deliver well-crafted apps that were highly appreciated at Gitex & Avaya Engage. Keep up your good attitude"

### Innovator - UNIKEN INNOVATION LECTURE SERIES

Our idea was shortlisted among the top 25 ideas of Pune city and was showcased at the 2nd UNIKEN INNOVATION LECTURE SERIES.

### 1st Prize for Software Project Competition

Won the 1st prize in Tech N Talent Competition in the year 2010 under the Software Project Competition category.

## Education

2010 - 2012

### Master in Computer Science

*Nowrosjee Wadia College, Pune*

2007 - 2010

### Bachelor in Computer Science

*Nowrosjee Wadia College*

