

# Liyakat Ahmed Patel

## Solutions Architect



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in [Liyakat Ahmed Patel](#)

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Andheri West, Mumbai – 400061,  
Maharashtra, India

## SKILLS

### AWS:

VPC, EC2, ELB, ASG, S3, IAM, Route 53, CloudFront, MySQL, API Gateway, Lambda, DynamoDB, ECS, EKS, Amazon Connect & more

### Knowledge of AWS MGN (Migration)

### Infrastructure as Code (IaC):

CloudFormation, Terraform

### Containerization & Orchestration:

Docker & Kubernetes

### DevOps CI/CD Pipeline (SDLC)

### Virtualization:

VMWare ESXi, VirtualBox, Proxmox

### Firewall:

WAF, Security groups, NACLs, pfSense

### VPN:

Ethernet VPN, OpenVPN

### Cloud VoIP:

Cloud PBX, Cloud Call Center, Cloud IVR Broadcast

## CERTIFICATIONS

**AWS Certified Solutions Architect Associate**

**Cisco Certified Network Associate (CCNA)**

**Diploma in Networking Technology from CMS Institute, Mumbai**

## EDUCATION

**Bachelor Of Engineering (B.E) Electronics & Communication**

📅 2001

📍 Gulbarga University, Gulbarga, Karnataka.

**Higher Secondary Education (H.S.C)**

📅 1996

📍 Mumbai, Maharashtra

**Secondary School Education (S.S.C)**

📅 1994

📍 Mumbai, Maharashtra.

## SUMMARY

A Solutions Architect with **20 years of experience working in the IT industry**. On my way to becoming an AWS Certified Solutions Architect Associate, I was also an IT Manager. Have work directly with business partners to identify requirements and create technical solutions to satisfy those requirements. Building solutions that are resilient, scalable and fault tolerant towards an enterprise goal. Proven success in multi-tasking, generating creative ideas, organizing, and finalizing projects, using Agile methodology.

## WORK EXPERIENCE

### Solutions Architect

**Zars Technologies Private Limited** ([www.zarstechnologies.com](http://www.zarstechnologies.com))

📅 June 2018 – Ongoing (4 years 10 months) 📍 Gulbarga, India

A leading Cloud Telephony provider dealing in cloud enabled voice services, Retail VoIP & Wholesale VoIP Carrier. Employing latest and most advanced technology and innovations.

### Roles & Responsibilities:

- Oversee implementation of technical architecture by producing blueprints that guide the development and implementation of business solutions across multiple projects, providing direction to technical teams during project delivery and ensuring implementations, support, technology and business roadmaps.
- Work as the liaison between the business, application development and IT Operations to ensure appropriate use of technology.

### Products:

- **Cloud PBX, Cloud Call Center, Call IVR Broadcast, Calling Cards, Mobile Dialer, Residential Phone, Wholesale VoIP, Virtual Number.** Routing based on **Premium, Standard and Price competitive options.** (Vendors: AT&T, Verizon, IDT, BSNL, TATA, Vodafone, Bharti Airtel)

### Projects:

- ❖ **Cloud SoftSwitch (Class type 4 & 5):** Calling cards, Mobile dialer, Residential phone, Wholesale VoIP, Virtual Number.

#### 3 Tier Architecture:

- **Web Tier** contains **NLB** listening on **TCP\_UDP**, distributing traffic to **Multi-AZ EC2** in **Private NAT subnets**. A **NAT instance** for App Tier instances & RDS (MySQL) for OS updates etc and also acts as a **Bastion Server**.
- **App Tier** contains, SoftSwitch EC2 instances created with **Golden AMI** running in **Private NAT subnet** associated with an **ASG** with Security group (**Allow inbound from SG of NLB**).
- **DB Tier** contains **Multi-AZ RDS (MySQL)** in Private subnet, Storage with Autoscaling, Automated Backups & Encryption with Security group (**Allow inbound from SG of App Tier EC2 instances**).

## Projects:

### ❖ Cloud Call Centre Solution (Omnichannel: Call, Live chat, Email):

- Inbound call center for Support, Billing & Sales queries.
- Outbound call center for Sales – Manual dialing, Predictive dialing & Broadcast.
- IVR Campaigns.

#### 3 Tier Architecture:

- **Web Tier** contains Internet facing **NLB** listening on **TCP\_UDP** & an **ALB** listening on **HTTPS**, both distributing traffic to **Multi-AZ EC2** in **Private NAT subnets**.
- **Route 53** to host the custom domain, pointing to Web server application fronted by ALB along with **SSL/TLS certificate** from **Certificate Manager (ACM)** for this custom domain.
- A **NAT instance** created in Public subnet for App Tier instances & RDS (MySQL) in **Private subnet** for OS updates etc and also acts as a **Bastion Server**.
- **App Tier** contains, **Web server** EC2 instances created with **Golden AMI** running in **Private NAT subnet** associated with an **ASG** with Security group (**Allow inbound from SG of NLB & ALB**).
- **App Tier** also contains, **Dialer server** EC2 instances created with **Golden AMI** running in **Private NAT subnet** associated with an **ASG** with security group (**Allow inbound from SG of Web server**).
- **DB Tier** contains **Multi-AZ RDS (MySQL)** in Private subnet, Storage with Autoscaling, Automated Backups & Encryption with Security group (**Allow inbound from SG of Web Server & Dialer Server**).

### ❖ Cloud Web hosting Control Panel:

Domain accounts (websites), Email accounts, Database, Web applications etc.

### ❖ Cloud Resume Website: ([www.liyakatpatel.com](http://www.liyakatpatel.com))

Built a website with a custom domain with good security posture from the ground up, **deployed to AWS**.


#### Architecture:

- **Route 53** to host the **custom domain** which routes the traffic to **CloudFront Distribution** which uses **SSL/TLS certificate** issued by **Certificate Manager (ACM)** for this custom domain.
- **Private S3 bucket** hosts this **static website** and configured as an origin for CloudFront distribution.
- **S3 Bucket policy** restricts access only through CloudFront with **Cross origin access**.
- The project is deployed and managed following a **CI/CD pipeline** using **GitHub** and **AWS CodePipeline**.

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## IT Manager (VoIP/ IP – NOC, Infrastructure & Security)

### Rids Technologies INC.

 Dec' 2014 – June 2018

(3 years 7 months)

 Mumbai, India

Incorporated in 2014, in Panama, Republic of Panama. One of the leading providers of telecommunication services.

#### Roles & Responsibilities:

Managing NOC, Infrastructure & Security for company's VoIP/ IP services.


#### Products:

**Wholesale VoIP (SAARC & African countries), Calling Cards (USA), DID Numbers (USA), Mobile App (SIP Phone, RCS rich features: Chat, Video call, File transfer etc.)**

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## Founder & IT Manager (VoIP/ IP)

### Voicetagged Limited ([www.voicetagged.net](http://www.voicetagged.net))

 Jan' 2010 – Nov' 2014

(4 years 11 months)

 Mumbai, India

Incorporated with Ras Al Khaimah (RAK FTZ), United Arab Emirates (U.A.E), providing world's best business telecommunication. Lower costs, faster deployment, breakthrough simplicity.

#### Roles & Responsibilities:



Managing NOC, Infrastructure & Security for company's VoIP/ IP services.

#### Products:

**Wholesale VoIP (SAARC countries), Calling Cards (USA), DID Numbers (USA), SIP Trunking (UAE)**

## Senior NOC Engineer (VoIP/ IP)

### Maksh IT Solutions & VoIP Services

 June 2008 – Dec' 2009 (1 year 7 months)  Pune, India



Established in 2005, India. A company into Internet Telephony possessing a **Class A ISP and ITSP license**. VoIP Service provider renowned in the Indian Market as well as Internationally.

#### Roles & Responsibilities:

Providing support to company's VoIP Infrastructure & VoIP Services.

## NOC Engineer (VoIP/ IP)

### Maksh IT Solutions & VoIP Services

 June 2006 – June 2008 (2 years 1 month)  Pune, India

Providing support to company's VoIP Infrastructure & VoIP Services.

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## Senior Technician – Engineering

### TV Today Network Limited: Aajtak

 June 2005 – June 2006 (1 year 1 month)  Mumbai, India



India's most influential News Broadcaster.

#### Roles & Responsibilities:

Managing company's IT, Studio & Broadcast infrastructure.

## Studio Technician – Engineering

### Radio Today (Mumbai) Broadcasting Ltd. (RED FM 93.5)

 June 2004 – June 2005 (1 year 1 month)  Mumbai, India

One of the Best Radio Stations running out in Mumbai. **The India Today Group**.



#### Roles & Responsibilities:

Managing company's IT, Studio & Broadcast infrastructure.

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## Assistant Station Engineer

### Millennium Mumbai Broadcast Pvt. Ltd (Win 94.6)

 Sept.' 2003 – June 2004 (10 months)  Mumbai, India

One of the Best Radio Stations running out in Mumbai, India.



#### Roles & Responsibilities:

Managing company's IT, Studio & Broadcast infrastructure.

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## System Engineer



### Tulip IT Services Ltd – ISO 9001

 Aug.'2002 - Aug.'2003 (1 year 1 month)  Mumbai, India

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## Hardware Engineer

### Techsol Computers

 Jan.'2002 – Aug.'2002 (8 months)  Mumbai, India