

## Skills

Languages Python, Golang, Bash scripting

Database Postgresql, Mongodb, Redis, Redshift, Apache Cassandra, RethinkDB

Framework Django, Tornado, Bottlepy, Flask, Expressjs

Server communication RabbitMQ, Apache Kafka, ZeroMQ

Server containers Docker

Infrastructure monitoring InfluxDB, Grafana, Telegraf

Worked on Erlang, Java, Arduino, Raspberry pi, Node.js, Arduino, OpenCV, Openstack

Background task Celery, AWS Lambda

Javascript Backbone.js, Angular.js

Web Server Apache, Nginx

Version control Git, SVN

Cloud AWS, Digital Ocean

Deployment Python Fabric, Ansible

Data processing Apache Storm, Apache Spark

Service discovery Consul, Zookeeper

## Experience

### Coverfox Insurance Pvt. Ltd, Mumbai, India

*Sr. Tech Architect*

SEPTEMBER 2015 - PRESENT

- Role is to Gather requirements from Business teams, prepare tech solutions, estimate project duration, execute, do code and mentor peers. Role also includes identify tech solutions which can help business to grow and work on cutting edge projects.
- Designed and implemented database migrations, Database warehouse, BI, Data Lake, Chatbot, Insurance product backends, Customer engagement, Marketing automation, Infrastructure migrations.
- Implemented multi region infrastructure to full fill business, regulations and disaster recovery requirements.
- Audit and fix infrastructure and codebase cyber security vulnerabilities.
- Decreased cost of infrastructure.
- Monitored and Optimized infrastructure for 99.99 uptime.
- Automated various business processes with tech solutions
- Migrated PostgreSQL from AWS RDS to self hosted server with almost zero downtime and implemented High availability, Disaster recovery, Backup and PITR(Point in time recovery).
- Lead central team and report to C level executives and VP of Engineering.
- Migrated from SOA to Microservice architectures.
- Worked on Python, Golang, Erlang, Java, Node.js, Postgresql, Redis, RethinkDB, PipelineDB, InfluxDB, Docker, RancherOS, RabbitMQ, AWS, Apache Storm, Grafana, Zookeeper, Apache Kafka, Consul, Amazon Redshift, Apache Spark, Amazon Web Services(AWS).

### Shopsense(now Fynd), Mumbai, India

*Sr. Platform Software Engineer*

MAY 2015 - AUG 2015

- Developed and maintained ETL pipelines for India's leading retail brands.
- Infrastructure management.
- Worked on Python, MySQL, Apache Kafka, MongoDB, Redis, AngularJS, Django, Tornado, RabbitMQ, Java, Amazon Web Services(AWS).

### Azoi Inc, Ahmedabad, India

*Software Engineer*

SEPTEMBER 2012 - PRESENT

- Responsible for Web R&Ds. Core team member of Web R&D team.

- Developed mission critical, fault tolerance, high scale web and IOT ( Internet Of Things ) applications in health domain.
- Worked on computer vision applications and wearable technologies.
- Core team member of Backend As Service. Role was Architect and Developer. Awarded for performance in this project.
- Developed Push Notification Server. Role was as Architect and Developer.
- Developed Zero downtime deployment tools and scripts.
- Developed REST apis and Dashboards.
- Developed sandbox environment to execute python code in secure way.
- Developed pre-order system for Kito/Wello case pre-orders.
- Implemented HIPAA, ISO 9000, ISO 27001, ISO 27017, ISO 27018 compliances.
- Worked on Python, Django, Tornado, Golang, Postgresql, MongoDB, MYSQL, Redis, Backbone.js, RabbitMQ, phantomjs, Heroku, Amazon Web Services(AWS), Varnish cache and other technologies.

## Raj Acedemy

*Part time Developer, Faculty*

OCTOBER 2010 - SEPTEMBER 2012

- Provided Training to students on PHP & ASP.NET.
- Course Content generation - Knowledge base generation.
- Handled PHP and ASP.NET projects individually.

## Projects

### Data Lake & Database Warehouse

- Built ETL pipelines to get data as much realtime.
- Gathered business requirements from operations, product, sales, analytics teams and implemented fully functional database warehouse
- Technology used : Python, Golang, AWS Redshift, AWS Kinesis, Apache Kafka, Apache Spark

### PostgreSQL migration from AWS RDS to AWS EC2

- Implemented High Availability, Disaster Recovery, backups and PITR recovery, Automatic Failover
- Built own replication system
- Technology used : Golang, PostgreSQL, MongoDB

### Infrastructure As Service Cloud

- Start / Stop / Remove instance.
- Distributed data centre manager.
- Pub/Sub architecture for inter server communication.
- Technology used : Python, MySQL, javascript, nginx, rabbitmq, redis, oracle virtualbox.

### Gesture detection javascript library

- Red object gesture detection
- Detect object gesture in four directions Top, Bottom, Left, Right direction.
- Technology used : HTML5 Canvas, Javascript

### Push Notification Server

- Push Notification server can send notifications to connected android devices and web browsers. It was designed for Android applications and web applications and it was able to do bi-directional communication.
- Technology used : Python tornado, Mongoddb, Redis, Websocket

### Home automation

- Start / Stop home equipments with mobile & desktop computers.
- Shedule equipment automatic turn on / off.
- Technology & Hardware used : Python, Mongoddb, Bootstrap, Javascript, Android, Raspberry Pi.

### Backend As Service Cloud

- Backend As Service Cloud is HIPAA compliant and model for providing web and mobile app developers with a way to link their applications to backend cloud storage and APIs exposed by back end applications.
- User management
- REST api

- Push notifications
- Custom code integration
- Integration with third party services
- Technology used : Django, MongoDB, Redis, Rabbitmq

### **Python Sandbox**

- Python Sandbox is secure environment to execute python untested code from unverified third parties, suppliers, untrusted users. Sandbox environment is to execute python custom code in secure environment.
- Execute code in secure kernel sandbox environment with limited system calls and functions.
- Code execution in child process.

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## **E**ducation

### ***B.Tech (Full time) in Computer Science***

IGNOU University, Samarth campus  
HIMMATNAGAR, GUJARAT, INDIA

JULY 2010 - JUNE 2013

### ***Diploma in Computer Engineering***

Technical Education Board - Gandhinagar, Government Polytechnic  
AHMEDABAD, GUJARAT, INDIA

JULY 2007 - JUNE 2010

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## **A**wards & **T**alks

### **Pace setter award**

*Azoi.Inc*

Pace setter award was for BAAS (Back-end As Service) development efforts and contribution. I also got appreciation from team lead for efforts and work I had done in this project.

*Europython 2015 Speaker, Bilbao, Spain*

Presented a talk on "Python Concurrency and Parallelism Multiprocessing and Multi-threading".

*PGConf 2018 Speaker, Bangalore, India*

Presented a talk on "PostgreSQL migration from AWS RDS to EC2".

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## **P**ersonal

Marital Status Married

Languages English, Hindi, Gujarati

Hobbies Learning new things

Nationality India

Date of birth 25<sup>th</sup> Nov. 1991

Hometown Ahmedabad, Gujarat, India

Current City Mumbai, Maharastra, India