

# Bhumil Sarvaiya

+91 9662542764

sarvaiyabhumil@gmail.com



<https://linkedin.com/in/bhumilsarvaiya>



<https://github.com/bhumilsarvaiya>



<https://npmjs.com/~bhumilsarvaiya>

## Education

Computer Engineering (B.E.)  
Gujarat Technical University,  
S.V.I.T, Vasad | 2016

## Work Experience



### Lead Backend Developer

VRAI Labs Pvt. Ltd. (February 2018 - present)

#### . Qually

- Qually is a reliable, personalized search engines where users can ask questions and get answers from their family, friends and connections. I am responsible for designing, implementing and deploying the backend of the app.

- The backend tech-stack includes **Docker**, **Node.js (Express)**, **TypeScript**, **Nginx**, **Python 3.x (Flask)**, **Java**, **Shell scripting** and six databases:

- . **Cassandra\***: is primary database for the app
- . **Elasticsearch\***: is used to provide full-text search feature
- . **MySQL**: is used to manage locks in order to maintain data consistency across APIs calls
- . **MongoDB**: is used to keep track of all logs
- . **Redis**: is used for caching purposes
- . **Neo4j**: is used to store relationship based data

(\*: cassandra and elasticsearch are deployed as a cluster of 3 nodes.)

- The app is currently deployed on **AWS** using **Docker**.

- The **unique session management** system which was designed for the app served as the inspiration for **SuperTokens**.

- The app is also integrated with third-party APIs like **Twilio**, **Textlocal**, **Facebook**, **Google**, **Firebase**, **AWS**, **GeoIP2** and **Wikipedia**.

#### . SuperTokens

- SuperTokens is an **open-source** organization which provides **super secure** solutions for **session management**.

- Along with the CTO, I have designed a session management flow which is explained in details in medium article: <https://hackernoon.com/the-best-way-to-securely-manage-user-sessions-91f27eeef460>.

- Based on the flow, I have also designed various implementations of the flow, i.e. flows where access token is JWT and flows where access token is an opaque token. All the code related to this can be found at: <https://github.com/supertokens>.

## Skills

### . Node.js

- express
- mocha
- socket.io

### . Javascript

### . TypeScript

### . Docker

### . Cassandra

### . Git

- github
- gitlab
- bitbucket

### . AWS

### . Nginx

### . MySQL

### . MongoDB

### . Elasticsearch

### . Shell script

### . Kubernetes

### . Python 3.x

### . Redis

### . Neo4j

### . GCP

### . Textlocal

### . Twilio

### . Firebase

### . Postman

### . Swagger

## Miscellaneous

Secured an all India rank 225 in GATE 2017 with 99.77 percentile.

### Software Engineer

Office Beacon LLC (March 2017 - February 2018)

- I was responsible for designing and implementing a **scheduling mechanism** which can queue and execute tasks based on JSON schema. The schema was based upon the XML of the diagram generated by using Camunda BPM tools. (Tech-stack included **RethinkDB** and **Node.js**)

- Learned creating RESTful using **FeatherJS**.

- Designed a **bidding algorithm** which can handle different variations of bidding like auto-bidding.

- Worked with a nlp library: **compromise.cool** to create a **pdf-indexer** which can help extracting names of people, locations, organizations and dates from a given pdf.