

# YATENDER SINGH

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<https://www.meetup.com/Elixir-Phoenix-OTP-Bangalore/>

5+ years in software development 2+ years working in elixir, phoenix & OTP, has worked on several platforms & languages including node, java, c#, elixir and some erlang. I am looking for challenging opportunity where I can enhance my learning.

## EXPERIENCE

NOV 2018 – CURRENT

**ENGINEERING MANAGER, BOMBINATE TECHNOLOGIES PRIVATE LTD.  
(VOKAL)**

Handling the role of engineering manager in Vokal, building platform for multiple languages Q&A to collaborate with experts.

### Projects:

**Dispatch System:** Dispatch system development so that right question can be shown into the feed of related expert.

**Team Size:** 2

**Technologies Used:** Elixir, OTP MongoDB, Aerospike.

OCT 2016 – NOV 2018

**FULL STACK DEVELOPER, BOMBINATE TECHNOLOGIES PRIVATE LTD.  
(VOKAL)**

I am developing backend the system in Vokal, my responsibility in Vokal is to make sure our backend systems are available 24\*7 without downtime.

Vokal is an expert's platform where anyone in India can ask questions/views from experts in native languages and can share his own thoughts via podcast or going live on video. Vokal is basically a platform build for a segment in India who doesn't know English.

### Projects

**Backend API System:** I developed & designed backed system of Vokal, I created APIs which was getting used by Android, iOS, web clients.

**Team size:** 3

**Technologies Used:** Elixir, OTP, Ecto, MySQL, Redis, MongoDB

**Learning outcomes:** It was the first project where I used Elixir, Learning & designing whole system was a good learning in itself and getting to know the features of Elixir.

**Tagging system & Graph DB:** Real time tagging of the questions flowing from users and mapping with the potential answerers of their respective fields. Getting to know the potential metadata through NLP APIs. Using Graph DB I solved the limitations which we were facing in classic RDBMS getting to know the social network data in real time and showing it on news feed was a big challenge, it was taking a lot of time in MySQL there were several joins like who is following whom, who is creating the content, what tags this particular answers has and in which priority should I show the answers/questions on news feed of a user, these kind of problems was solved by Neo4J.

**Team size:** 1

**Technologies Used:** Elixir, OTP, Phoenix, Bolt, NEO4J, Redis

**Learning outcomes:** It was the first project where I used Graph DB like Neo4J and learnt how a Graph DB can be helpful in storing details when relationship is complex like social network where one person is following another

**Bots Systems** : I developed & designed task runner bots systems of Vokal, this bot system is generic task runner system which handles any task you though at it and get it done which you don't want to do in real time, through backpressure mechanism.

**Team size:** 1

**Technologies Used:** Phoenix, OTP, Redis

**Learning outcomes:** Handling backpressure so that system doesn't go down in case of flood of task request, understanding how Gen Stage works and how we can scale our system using these technologies.

**Auto Sitemap:** Auto creation of sitemap & submitting in real time on different-2 search engines so that it can get indexed as fast as possible and we can get a lot of traffic from google.

**Team size:** 1

**Technologies Used:** Phoenix, OTP, Redis, MongoDB

**Learning outcomes:** Understanding SEO & how to make our sitemap & templates lite weight so that it can be accessed by any search engine.

**Logging Systems:** Common Logging system which can be used by anyone in the team and people can see any crash, error in real time and can get to know the history of logs in systems.

**Team size:** 1

**Technologies Used:** ELK stack

**Learning outcomes:** Learnt to make life easy for people around us and get the work done faster and not spending more time in debugging the code.

**APRIL 2016 – OCT 2016**

## **SENIOR SOFTWARE ENGINEER, TRIPDEAL PRIVATE LIMITED**

TripDeal was an online travel agent like MakeMyTrip. It used to sell hotels & airline tickets.

**Transaction system:** Design of whole database, backend & transaction system.

**Team size:** 2

**Technologies Used:** NodeJS, MongoDB, ELK STACK, Neo4j

**Learning outcomes:** Understanding how payment gateways, user auth, logging systems works and how to utilize Mongo DB Geo location APIs to give better search results

**JULY 2015 – APRIL 2016**

### **SENIOR SOFTWARE ENGINEER, CHAIPOINT**

Chaipoint is an online & offline beverage & food seller

**Transaction system & warehouse system:** Design of whole database, backend & transaction system.

**Team size:** 2

**Technologies Used:** NodeJS, MySQL, Mongo DB, Postgres.

**Learning outcomes:** First time designing the whole transaction system & warehouse system.

**IOT system design:** Design of IOT system which is consuming events coming in real time from thousands of remote machines and doing analytics on those events and taking actions based on it.

**Team size:** 2

**Technologies Used:** NodeJS, MySQL, Mongo DB, ELK stack, Kafka.

**Learning outcomes:** First time Integration with IOT system and scaling system for 1000s of machine event streams in real time without data loss.

**JUNE 2013 – JULY 2015**

### **SOFTWARE ENGINEER, REDUBS.IN**

Redbus.in is the biggest bus ticketing platform in India selling more than 2 milion bus tickets in a month.

**Analytics Platform:** Building the vendor analytics platform from this platform they can manage inventory in real time.

**Team Size:** 2

**Technologies used:** C#, MongoDB, AngularJS

**CRM INTEGRATION:** Integration of CRM system & maintaining the current system

**Team size:** 1

**Technologies Used:** c#, rabbit MQ

**Learning outcomes:** Understanding how queuing system works when we have to make sure data delivery between 2 disjoint system.

## EDUCATION

2013

**B.TECH**, NITK SURATHKAL, INFORMATION TECHNOLOGY

## SKILLS

**LANGUAGES:** FUNCTIONAL PROGRAMMING, OBJECT ORIENTED, SCRIPTING

**VERSION CONTROL** GIT

**DATABASE SYSTEM** SQL, NOSQL

**CACHING SYSTEM:** REDIS, ETS, AeroSpike

**UI:** ANGULAR JS, OOJS

**SERVER:** ELIXIR, NODEJS, RUST(JUST STARTED)