

Yatender Singh Suman

Elixir Developer

SUMMARY

10+ years in software development 6+ years working in elixir, phoenix & OTP, has worked on several platforms & languages including NodeJS, Java, C#, Elixir, Go & Rust. I am looking for a challenging opportunity where I can enhance my learning.
Expertise in Phoenix & Elixir, Distributed Tracing of microservices, API designs, RabbitMQ and Cosmos blockchain.

WORK EXPERIENCE

Senior Elixir Engineer

Apr 2022 - Present -

Taxfix GmbH
Berlin

- As a senior Elixir engineer, I worked in the Tax-platform team. I worked on the different aspects of the platform running in distributed setup mode, distributed tracing, performance optimizations, and package management for different-2 countries/years.
- I worked on the Taxom, a tax-specific language built in the elixir from scratch by using the Nimbleparsec library to parse tax rules to mathematical logic using backward chaining. It was a really fun & complex project but it enabled me to understand the logic & parsing deeply.

Software Engineer

Aug 2020 - Oct 2021

BlockFi
NJ, USA

- Worked on the Blockfi withdrawal payment system where I managed the crypto withdrawals to crypto wallets & crypto to wire transfers.
- Worked on the automated withdrawals systems of assets of the customers.
- Worked on the wire transfers.
- Worked on the distributed tracing.

Software Engineer

Aug 2019 - Oct 2020

Betika
Barcelona, Spain

- Building high-speed sports betting platform in Elixir
- Working with the team at erlang-solutions.com on this project and collaborating on a core betting platform
- Built the centralized caching system which can be used by any library.
- Built the wallet system where players can deposit, withdraw money.
- Working on the observability of the system.
- Maintained the open-telemetry library for the Elixir community.
- Added the distributed tracing for the microservices using Open-Telemetry, Grafana & Zipkin.

ENGINEERING MANAGER

2018 11 - 2019 10

BOMBINATE TECHNOLOGIES PRIVATE LTD
Bengaluru, India

- 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

Full Stack Developer

Oct 2016 - Nov 2018

Bombinate Technologies Pvt Ltd

Bengaluru, India

- 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 aGraph 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 thought at it and get it done which you don't want to do in real time, through back pressure mechanism.
- **Team size:** 1
- **Technologies Used:** Phoenix, OTP, Redis.
- **Learning outcomes:** Handling back pressure so that system doesn't go down in case of flood of task request, understanding how GenStage 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.

SENIOR SOFTWARE ENGINEER

Apr 2016 - Oct 2016

TRIPDEAL PRIVATE LIMITED

Bengaluru, India

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 utilise Mongo DB Geo location APIs to give better search results

SENIOR SOFTWARE ENGINEER

Jul 2015 - Apr 2016

CHAIPOINT

Bengaluru, India

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.

SOFTWARE ENGINEER

Jun 2013 - Jul 2015

Redbus.in

Bengaluru, India

Redbus.in is the biggest bus ticketing platform in India selling more than 20 mn 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

Information Technology

Jun 2009 - Jul 2013

National Institute Of Technology Karnataka Surathkal

Surathkal, India

SOFTWARE DESIGN SKILLS

Elixir	90%	Live View	70%
Phoenix	70%	Caching	90%
Event Driven Systems	70%	API design	100%
NODEJS	90%	Golang	60%
Elastic Search	80%	Rust	40%

LANGUAGES

English

Spanish

◆◆◆◆◆

◆◆◆◆◆

Hindi

◆◆◆◆◆

MOST PROUD OF

Physical Organization

Creative Thinking, Effectiveness, Productivity

Planning

Analyzing Issues, Decision Making, Project Management, Strategic Planning

Team Work

Collaboration, Delegation, Goal Setting, Group Leadership

AREAS OF EXPERTISE

distributed tracing

Phoenix

LiveView

Database Design

Elixir

observability

Rabbitmq

zipkin

open telemetry

Event Driven System

API design

Redis

Caching

Neo4j

GraphDB

NOSQL

SQL

MySql

nodejs

javascript

Grafana

Mongo

OTP

Cosmos blockchain

IBC

MY TIME



HOBBIES & INTERESTS

Reading

Cycling

Watching movies

Motorcycling

Gymming