

Bhushan Subhash Kale

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Location :- Pune, Maharashtra



Professional Summary

- Overall **5+ years of IT Experience** in development of Web, Enterprise & Server side applications using **Java, Spring Boot, Python, Micro-services, REST API, AngularJS, JavaScript**.
- Worked on NoSql Database like **MongoDB, Cassandra, Redis** & graph databases like **Neo4j, OrientDB**.
- Hands on experience in **Java 8** streams, functional programming & lambdas.
- Experience in installing/developing/configuring web applications on **Tomcat, AWS** using **Maven, Docker**.
- Experience in Linux operating system with networking, shell scripting, packaging, build & troubleshooting.
- Have followed **Agile Methodology** & worked in **SCRUM** oriented development environment using **JIRA Development Tool**.
- Used **PMD, Checkstyle, Find Bugs & Sonarqube** for better coding rules & used **JIRA Bug Tracking** for defect tracking.
- Capable of analysing the problem & finding simple solutions on it.
- Experience on latest market trend **IoT i.e. Internet of Things**.
- **GIT(BitBucket)** & **SVN** is used for maintaining project source code version controlling.

Career, Academic Qualification & Certifications

- Working as a **Software Engineer** for **KPIT Technology LTD** Pune from **Jan 2014** till date.
- Bachelors of Computer Applications from University of Solapur with 70.42% in year 2007-2010.
- Masters in Computer Applications from University of Pune with 71% in year 2010-2013.
- OCJP J2SE6 Certified.

Technical Skills

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| • Languages | : Java, J2EE, Python(2.7, anaconda), SQL |
| • Web/XML Technologies | : HTML, CSS, JavaScript, AJAX, JQuery, XML, Servlet, JSP |
| • Frameworks | : Spring, Spring Boot, Spring Data |
| • Tools and Utilities | : Eclipse, STS, GIT, SVN, JIRA, Maven, Docker, Jenkins |
| • Databases | : MySQL, Cassandra, MongoDB, Redis, Neo4j, OrientDB |
| • Web/App Server | : Weblogic 11g, Apache Tomcat |
| • Coding Rule Guards | : Sonar, PMD, Check Style, Find Bugs |
| • O.S. | : Linux, Windows servers |
| • Other applications | : RabbitMQ, HAproxy, JHipster |

Project Experience

PROJECT 1 :- Trace2Fix: Knowledge Graph based guided diagnostics

Client :- Fiat Chrysler Automobiles.
Role :- Developer
Environment :- Spring boot, Python, Angular5, Neo4j, MongoDB, AWS BeanStalk.
Team Size :- 2(Server team).
Duration :- March 2018– Till date.

Key highlights:

- This application is for vehicle diagnostics to help and assist service technician to find out actual root causes & provide fastest path to trace a fault in vehicle.
- Useful for OEM's to save cost on replacing vehicle parts.
- Guide service technicians to trace actual root causes for DTCs(Diagnostic Trouble Code) & help to solve DTCS with providing & prioritizing minimal tests & repairs.
- Capture & Log each activity & store it for further data analytics.

Role and responsibilities:

- Participated in gathering and analysing the Requirements.
- We implement a core trouble-shooter algorithm that provides tests from graph DB, rank them & help technician to test & repair DTCs & resolve them.
- We used spring boot micro-services architecture to design REST API's.
- Implement security using Spring Boot JWT.
- Involved in data analytics & NLP kind of jobs.
- Involved in all Agile Methodology to provide estimation for user stories.

PROJECT 2 :- Vehicle Tracking with JRM (Journey Risk Management) based on IoT.

Client :- Castrol.
Role :- Developer
Environment :- Spring Boot, Javascript, Maven, HMTL5, RabbitMQ, Mysql, Cassandra.
Team Size :- 6.
Duration :- 1 year

Key highlights:

- The VTS (Vehicle Tracking System) Device that sends data such as latitude, longitude, engine status, battery status, date & time etc. through GPRS to the server and provides different voice notifications to driver based on commands sends from server.
- Listen the data packet coming from VTS device fitted in vehicle parse it, store it in DB and run different jobs to analyse data and provides information such as directions, Point of interest like restaurant, petrol pump & hospitals , journey Break, Elevations in route, traffic in route etc.
- Minimise the whole journey risk so that the materials can be delivered safely.
- Minimise the driver overheads by providing timely voice notifications about whole route, take a break after long time driving, traffic and elevations etc.

Role and responsibilities:

- Participated in gathering and analysing the Requirements.
- Write TCP Listener to listen data coming from device.
- Involved in writing jobs by using Google map APIs that includes direction, places and elevation API.
- Analyse traffic condition using HERE Maps Traffic API.
- Involved in developing and designing VTS web application.

PROJECT 3 :- KPIOT (KPIT's Internet Of Things)

Client :- KPIT
Role :- Developer
Team Size :- 4
Environment :- Spring Web MVC 4.0, AngularJs 1.0, RabbitMQ 3.5, Docker, Python 2, PostgreSQL 9.
Duration :- 1year

Key highlights:

- Handling data which comes from thousands of devices simultaneously.
- Listener that listen for data coming from different protocols such as TCP, MQTT, HTTP, AMQP.
- Used RabbitMQ as message broker for handling messages.
- Used Celery which is used as task queue that helps to perform various task asynchronously.
- Write back to the devices for some alert conditions.

Role and responsibilities:

- Involved in coding and development for KPIOT application.
- Involved into develop and Write a generic code for a TCP Listener which require minimum code change.
- Involved in brainstorming and problem solving tasks.
- Extensively used RabbitMQ and Celery for message queue and task worker respectively.
- Involved in unit testing.
- Knowledge transition within team.

PROJECT 4 :- AMR (Automatic Meter Reading) using KPIo

Client :- KPIT
Role :- Developer.
Environment :- KPIoT, Spring 4.0, JSP, Servlet, Bootstrap 3.0, Tomcat 5.0.
Duration :- 6Months

Key highlights:

- TCP Listener that ready to listen data from DCU.
- Handling data packet format.
- Different graphs and maps to track DCU Location and status etc.

Role and responsibilities:

- Involved in coding.
- Develop the TCP listener that can be used to listen data from DCU.
- Write a code to handle the partial packets as well as to validate a packet format.
- Extensively used spring, Google maps and charts to develop the web portal.

PROJECT 5 :- Automated Sensor Data Collection (ASDC)

Client :- Weatherford.
Role :- Developer
Team Size :- 5.
Environment :- Thingworx composer 6.0, Core Java, MySQL 5.0.
Duration :- 6 Months.

Key highlights:

- Accessing data from sensors and meters.
- Mashups using Thingworx composer.

Role and responsibilities:

- Participated in gathering and analysing the Requirements.
- Write the different javascript services to process data for showing in mashups.
- Write a java code using scheduler for data rollout that runs on different time intervals.
- Develop and design different mashups to show status and information about sensors and meters.

PROJECT 6 :- Revolo web portal

Client :- KPIT
Role :- Developer
Environment :- Spring 4.0, JSP, Servlet, Bootstrap 3.0, Tomcat 5.0, Mysql 5.0.
Duration :- 1year.

Key highlights:

- Charging station analysis for Revolo product vehicles.
- To find out the profitability of using revolo.
- Different graphs and maps to track vehicles route, status etc.

Role and responsibilities:

- Participated in gathering and analysing the Requirements.
- Extensively analyse the data to find out the best charging station locations & Involved in coding.

Personal Details

Name as in Passport	:-	Bhushan Subhash Kale
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Nationality	:-	Indian

I hereby declare that the information that I have furnished is authentic, and true to the best of my knowledge.

- Bhushan Kale