
EMPLOYMENT

Technical Lead

Hein Fricke

April 2016 - Present

RTLS and GPS Positioning, Bornemann AG

- Utilized Java, Eclipse Microprofile, Quarkus, JSF, Primefaces, GraphQL, Postgres, RabbitMQ, Quartz, Gluon Mobile, Firebase Cloud Messaging (FCM), Reactive Programming using SmallRye Mutiny, Docker, Jenkins, Amazon S3, ChartJS, Portainer, GreyLog, Grafana, Micrometer Prometheus, JQuery, Leaflet Map
- Led team of 4-6 engineers for frontend development for developing rich internet applications(RIAs) by creating responsive designs to render the web pages uniformly and seamlessly in desktop, tablet, mobile.
- Worked with product owners to understand their business models, goals and features and help them to pick up the right framework or libraries.
- Provide high-level documentation on recommendations for system architecture diagrams, tech stack selection, 3rd Party dependencies, data models and database schema, and API specifications to drive development.
- Developed multiple microservices for backend using Quarkus for delivering the reports.
- Developed the cross platform mobile apps using Gluon Mobile that could run on Desktop, Android, and iOS
- Design and implement RESTful APIs archived Richardson Mature Model (Level 2 or Level 3) using Quarkus, Apache Camel Route.
- Upgrade and downgrade RDBMS automatically by Flyway managed SQL scripts that are packaged in application deployments.
- Analyzed root cause of catastrophic failure like out of memory and high CPU usage in microservices deployed in docker containers.
- On boarded and supported several web applications and services onto Jenkins continuous delivery pipeline.
- Followed agile processes including daily standups, regular retrospectives, short iterations, test-driven development, and constant personal feedback in order maintain a sustainable yet fast pace of delivery.
- Formulated the training program for new team members to get hands- on experience on project technology stack in order to reduce the project onboarding time.
- Helped the recruitment team to formalize the interview levels.
- Interviewed freshers and full-time entry level candidates to assess technical aptitude.

PCMS, Nordex

- Utilized Java, JSF, Primefaces, JPA, EclipseLink, MSSQL, GlassFish, Liquibase
- Designed and implemented a solution to setup a development environment using Vagrant and Virtual Box, eliminating the need for manual installation and configuration and resulted in a 12 hour time saving per setup.
- Involved in initial design, database design and creating basic models.
- Generated Use case diagrams, Class diagrams, and Sequence diagrams using Jude.
- Involved in requirement gathering and creation of user and functional requirement specifications.
- Coached and mentored a team of junior engineers on best practices to increase their productivity & contributions to the code base.
- Expanded the authorization capability of the testing manager application to include Microsoft Active Directory (LDAP).
- Created a better product for our users by shipping new features, optimizing performance, reducing technical debt, and migrating an aging code base to a new tech stack.
- Involving in communicating with product owner and team members to clearly define scope of work and provide accurate schedule estimates, guidance and assistance to development and operational team members.
- Developed proof of concept by creating a microservice using Spring Boot running in Cumulocity IoT.

- Worked on fixing the performance related issue related to page loads and memory.
- Written the Junit test cases using Mockito while performing unit and integration testing.

Order Management Platform, CGATE Logistics GmbH and WZC RIEMANN

- Utilized Angular 5.0, Angular Material, HTML, CSS and Typescript
- Involved in initial screen design and creating basic models definitions for order management.
- Coded the client to consume the Odoo ERP REST APIs for creating and listing the orders.

Technical Lead, UI

Harman Connected Services

Feb 2014 – Mar 2016

Vibration Analysis, Intel

- Utilized Java, JAX-RS, Jersey, JSF, Primefaces, Bootstrap, JQuery
- Led and trained the team of 6 engineers for developing RIA using JSF and Primefaces
- Developed a dashboard for data visualization with a variety of 2D and 3D interactive charts with jqplot, D3, Dygraph and Plotly.
- Design and implement RESTful APIs utilizing HATEOAS architectural style.
- Expanded the authorization capability of an application to include Microsoft Active Directory (LDAP)
- Interviewed candidates for building the UI team

Senior Software Engineer

Direct Technologies (Directologies)

Feb 2011 – Jan 2014

Enhanced Messaging (SMS) Platform

- Utilized Java, JSF, Icefaces, Primefaces, Swing, Spring Data, Spring Security, JPA, Hibernate, JAX-RS, Jersey, JAX-WS, JQuery, CSS
- Developed rich enterprise applications (REAs) using Primefaces, Icefaces for end users, resellers and administrators.
- Developed client interface layer using REST, SOAP for communicating with Core SMS Engine
- Used Spring for dependency injection, user authentication, user authorization and integrated with the JSF.
- Used Spring JDBC template to persist the data to the database layer.
- Fixed all vulnerabilities found during web penetration testing reports like captcha to prevent automated password-guessing attacks.
- Secured the client server communication by configuring tomcat with SSL.
- Prepared POC using MapReduce architecture, to process several SMS log files in order to locate and extract information related to different SMS statuses.

Software Engineer

Kennovation Software Services

Aug 2009 – Jan 2011

Openbravo ERP & Retail POS, Kare Partners, Coolvines, QuickHeal

- Utilized Java, JDBC, Servlets, HTML, CSS, JavaScript, JQuery, Dojo, DHTMLx, PostgreSQL, ActiveMQ, Swing, Log4j, Selenium, TestNG, Netbeans
- Uncovered and documented the steps to create a new module that can be packaged, shipped and deployed independently on top of Openbravo ERP.
- Implemented a timesheet screen, integrated CSS classes defined by the UX team for styling web pages for the billing and payroll module and validated the user input using JQuery and Dojo.
- Reduced manual QA process time by writing automated browser tests for timesheet screen using selenium standalone server and TestNG, enabling team to iterate and ship new features quickly.
- Involved in gathering and brainstorming the business requirement, screen design, finalizing database schema and validations for POS modules with internal business analyst team and client.
- Led the team of 4-5 engineers for POS module development.
- Developed discount, gift card and barcode label printing module for Openbravo POS.
- Written SQL queries for data persistence using JDBC by utilizing DAO Pattern.
- Evaluated, Integrated and Tested multiple payment gateways for Openbravo POS
- Coded the client for consuming UPS and FedEx SOAP web services using JAX-WS for calculating the shipping cost per order.

- Responsible for building and deploying the POS application on clients machines for UAT.
- Integrated and configured Openbravo ERP web service endpoints in POS for upstream and downstream synchronization of products, categories and orders using ActiveMQ.

EDUCATION

IACSD, Pune	Pune University	Aug 2008 – Feb 2009
<ul style="list-style-type: none"> • Diploma in Center for Development of Advanced Computing(C-DAC). Percent: 64% 		
GCOE, Amravati	Amravati University	Jul 2003 – Aug 2007
<ul style="list-style-type: none"> • Bachelor of Engineering in Mechanical Percent: 60% 		
Mar 2000 – Feb 2002		
<ul style="list-style-type: none"> • Higher Secondary School Certificate (HSC) Percent: 81% • Secondary School Certificate (SSC) Percent: 53% 		

TECHNICAL EXPERIENCE

Projects

- **Bornemann Services.** Quarkus microservices developed to deliver the subscribed reports to users' mailboxes.
 - **Report Publisher.** Schedules periodic tasks with quartz for generating the active report subscription orders and queue them for processing.
 - **Report Consumer.** Consumes the report order messages from queue, fetch the report data and then prepares the report in PDF, CSV and XLS format
 - **Report Mailer.** Send the report email for intended recipients after downloading the attachment from amazon s3.
 - **Report REST.** REST APIs for support team for checking statuses of mail, re-sending of mail etc
- **Bornemann Cloud**
 - **Reports.** Web portal to download different standard reports such as tour, position, downtime or geozone, sensory or event reports. Users can subscribe to reports with the collected data of all vehicles and objects and conveniently have it sent to them via email.
 - **Maps.** Web portal to track assets (tracking of vehicles, machines, tools etc) in real time with maps. It provides comprehensive information such as the fuel level, start of journey, course of the journey, kilometers driven or driving time for vehicles, temperature in refrigerated containers, level in waste containers, battery charge of devices
 - **Administration.** Well-structured asset management portal for defining the vehicles, creating geozones, adding driver information
 - **Archive.** Web portal for evaluating all routes covered in the past by the vehicles. This makes it possible to understand the wear and tear of the vehicles and their fuel consumption.
 - **Tours.** Tour allows route planning which helps to find the most efficient route for your vehicles. Simply select the destinations and vehicles and you will receive the optimal route.
 - **Alarm.** Allows users to create event notifications to be notified about it via email, SMS, WhatsApp, call. If a certain vehicle has exceeded the speed, is used after work or leaves a certain geozone, you or a specified group of people will be notified immediately with all the important information.
 - **Calendar.** Create maintenance appointments for the customer fleet in the portal and be reminded automatically.
- **Bornemann Apps**
 - **Work.** The app is the ideal solution for companies to communicate work instructions (work order) quickly and easily. The associated online portal Bornemann Work provides additional useful functions like work assignment, live position tracking and time reports for employees.
 - **Fuel.** App analyzes the prices and forecasts the expected fuel prices. The details are shown directly on Map or using list view.
- **PCMS.** This platform is primarily being used for quick and safe installation and maintenance of the Wind

Turbine. Application primarily being used to:

- Adding/Uploading (XML) the generalized configuration which is used to configure a turbine.
- Creating and approving a more specialized configuration for each turbine.
- Generating different types of documents(XML/PDF) which are used to configure turbines in the field.
- **Order Management Portal.** An angular web application to declare and process the custom clearance declaration in the field of imports, exports and transit goods.
- **Vibration Analytics.** Aims to reduce maintenance costs and equipment downtime by detecting equipment faults and failures in advance using vibration analytics data. All of this data is visualized using tabular and 2D/3D charts which in turn is analyzed by engineers or trained vibration analysts to determine the health of the machine.
- **Directologies Enhanced Messaging Suite (DEMS).** Collection of applications and a set of tools to administer a system providing enterprise messaging services for SMS communication.
 - Administration and Reseller Classic: Web-based administrative interface enables users management, SMS gateway management, country & operator masters, client routing, viewing MIS status and reports and pre-approved sender id validation.
 - SMS Zing: Web platform has the ability to send out SMS messages at a high rate. Users can send single and bulk SMS through file upload with validation for mobile numbers and MNP checks. Supports SMS scheduling for all timezones and round-the-clock web request for credit top-up, more sender id and support ticket
- **Openbravo Retail POS.** OpenBravo POS is a point of sale system designed for desktop and touchscreen. This POS terminal can be interfaced with the OpenBravo ERP allowing information use and exchange from its database. It allows the following main transactions: sales, payments, closes cash, and some operations to registered customers. It features four administration modules: customers, stock, sales and maintenance; in these administration modules all the information is managed and you can add, edit or delete suppliers, customers, products, users, warehouses, and in general all the information needed to operate this point of sales.
- **Billing Payroll System.** Built on top of Openbravo ERP, this module comprises two sub-modules
 - TimeSheet: That allows authenticated users to log their daily billable work hours
 - Payroll: Administrative access module that computes the weekly pay using the employee's hourly rate and the number of billable hours logged. It generates weekly reports in PDF format and sent it to users via email.

PERSONAL DETAILS

- **Date of Birth:** 01/May/1985
- **Marital Status:** Married
- **Languages Known:** English, Hindi, and Marathi
- **Father's Name:** Diwakar Kisan Tidake
- **LinkedIn:** <https://www.linkedin.com/in/vijaytidake>

LANGUAGES AND TECHNOLOGIES

- **Languages:** Java, JavaScript, Typescript, SQL
- **Database:** RDBMS (H2; MySQL; Postgres; MSSQL), NoSQL (Mongo; Redis)
- **J2EE/Jakarta EE:** Servlets, JSP, CDI, JAX-RS, JAX-WS, JSON-P, JSON-B, JAXP, JAXB, JSF, Primefaces, Icefaces
- **ORM:** JPA 2.x, Hibernate, EclipseLink
- **Spring Stack:** WebMVC, WebFlux, Spring Session, Spring Data, Spring Security, Spring Integration, Spring AMQP, Spring Batch, Spring Boot, Spring Cloud, Spring Boot Test.
- **Quarkus Stack:** Quarkus
- **Web Libraries:** CSS, HTML5, MomentJS, UnderscoreJS, NodeJS, LeafletJS, jQuery, Bootstrap
- **Mobile App Development:** Ionic, Gluon Mobile
- **Platforms:** Linux, Microsoft Windows
- **Servers:** Apache Tomcat, GlassFish

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- **Build Tools:** Maven, Ant
 - **Version Control:** Git
 - **CI-CD:** Docker, Jenkins
 - **Testing:** Junit, Mockito, Hamcrest, RestAssure, Selenium, TestNg, Arquillian
 - **Methodologies:** UML, Agile, SDLC
 - **Messaging Broker:** Rabbit MQ, Apache ActiveMQ, Apache Kafka
 - **Reactive Streams and Reactive Programming:** SmallRye Mutiny
 - **Data Visualization and Reporting:** Dygraph, Plotly, D3.js, Chart.js and JQPlot, Jasper Report, Dynamic Jasper, XSL-FO with XSLT
 - **Static Code Analysis & Code Coverage:** PMD, FindBugs, Jacoco, Klocwork
 - **Database Migration Tools:** Flyway, Liquibase
 - **Cloud:** AWS (EC2, ECS, ...)