

MEHDI BIZHANI Java Software Engineer

With over 10 years of experience in software engineering, I have learned some skills and solved many problems, and yet there are lots of challenges to encounter.

Last decade,

- I have developed softwares in old fashion of monolith using popular Java frameworks such as Spring, Hibernate, and etc.
- I have implemented my idea of modular software architecture as a group of open source projects called **Adroit**, **Wickomp**, **Demeter**, **Metis**, and **Ares**.
- I have been involved in projects of **banking**, **payment**, and **ERP** domain.

Currently, I have been focusing on **reactive distributed microservice architecture** and design patterns in the course of software development under containerization using Spring Boot and its ecosystem as the foundation.

I'm looking forward to

- developing fully-fledged enterprise software with best practices of microservice architecture covering most of its design patterns using polyglot datastores and handling distributed challenges in a cloud environment such as eventual consistency.
- utilizing my master's degree experience in data mining and analysis in an enterprise project.

First Name	Mehdi	Web Site	www.devocative.org
Last Name	Bizhani	Email	mbizhani@gmail.com
Birth Date	21-August-1981	LinkedIn	linkedin.com/in/mbizhani
Location	Iran, Tehran	GitHub	github.com/mbizhani
BS Degree	Computer Software Engineering	Cell	+98-912-3895295
MS Degree	Information Technology Engineering		
Experience	<ul style="list-style-type: none">• Over 10 years in software development and engineering• Java platform mainly using Spring, Hibernate, Wicket, Groovy, and Maven• Reactive Microservice Applications with Spring Boot + Redis + MySQL + Kafka + Nginx + Docker• DevOps and CI using Docker + Jenkins + Nexus• Databases using Oracle, H2, HSQLDB, and MySQL• Debian, Ubuntu, and Oracle Linux• Data Warehousing & OLAP• Data Mining for M.S. thesis with 2 published papers		
Interests	<ul style="list-style-type: none">• Microservice Architecture and Design Patterns• Distributed and Cloud Environment• Data Mining, Engineering & Analysis		

SKILLS

Software	<ul style="list-style-type: none"> ➤ Microservice Architecture <ul style="list-style-type: none"> ▪ Patterns ▪ Spring Boot 2 ▪ Spring Cloud ➤ Nginx ➤ Docker 	<ul style="list-style-type: none"> ➤ Jenkins ➤ Sonatype Nexus ➤ Build <ul style="list-style-type: none"> ▪ Maven ▪ Ant ➤ UML 	<ul style="list-style-type: none"> ➤ VCS <ul style="list-style-type: none"> ▪ Git & GitHub ▪ Subversion ➤ C++, C#, Pascal ➤ Agile, Scrum & Kanban ➤ Python 3
Java Platform	<ul style="list-style-type: none"> ➤ Java 8,7,6,5 <ul style="list-style-type: none"> ▪ Lambda & Streams ▪ Collection ▪ Generics ▪ Concurrency Package ▪ Regular Expressions ▪ Cryptography ➤ Hibernate & JPA ➤ Groovy <ul style="list-style-type: none"> ▪ Core & Template ▪ DSL 	<ul style="list-style-type: none"> ➤ Spring 5 <ul style="list-style-type: none"> ▪ Core ▪ Transaction ▪ AOP ➤ Apache Wicket 7, 6 <ul style="list-style-type: none"> ▪ Core ▪ Custom Component ▪ WebSocket ➤ Unit Testing <ul style="list-style-type: none"> ▪ JUnit 4,5 ▪ AssertJ 	<ul style="list-style-type: none"> ➤ Apache Tomcat & Jetty ➤ Jackson ➤ Jasper Report ➤ Apache Axis ➤ Quartz ➤ Scala 2 ➤ Java EE & EJB 3 ➤ FreeMarker ➤ XML Processing
Web	<ul style="list-style-type: none"> ➤ HTML, CSS & SASS ➤ JQuery <ul style="list-style-type: none"> ▪ Core ▪ Plugin Development ▪ EasyUI Library ▪ Highcharts & amCharts 	<ul style="list-style-type: none"> ➤ JavaScript ➤ Node <ul style="list-style-type: none"> ▪ NPM ▪ Angular CLI ➤ Angular6 ➤ Postman 	<ul style="list-style-type: none"> ➤ Adobe Flex, ActionScript & BlazeDS
Data	<ul style="list-style-type: none"> ➤ SQL ➤ Database <ul style="list-style-type: none"> ▪ Oracle ▪ MySQL ▪ HSQLDB ▪ H2 ▪ SQL Server ➤ Apache Spark ➤ Apache Cassandra 	<ul style="list-style-type: none"> ➤ Data Warehouse & OLAP <ul style="list-style-type: none"> ▪ MDX ▪ Pentaho Mondrian ▪ Star Schema ▪ Slowly Change Dimension ▪ Oracle BI ➤ OData via Apache Olingo ➤ ELK (Elastic + Kibana + Logstash) 	<ul style="list-style-type: none"> ➤ Data Mining <ul style="list-style-type: none"> ▪ IBM Modeler ▪ Statistics ▪ Clustering (K-Means, SOM, LVQ, Dunns and Silhouette) ▪ Classification (Decision Tree, Rule-based, Neural Network) ▪ Association Rule
OS	<ul style="list-style-type: none"> ➤ Linux <ul style="list-style-type: none"> ▪ Debian & Ubuntu ▪ Oracle & CentOS ▪ RPM Build ▪ Shell Script 	<ul style="list-style-type: none"> ➤ JCraft JSch & xterm.js ➤ osquery ➤ VMware ESXi 5.5, 6, 6.5 ➤ VMware Workstation ➤ VirtualBox 	

WORK EXPERIENCE

Company	Start	End	Duration	Role
7 Maxsa	2018/11	Now	<u>4</u> Months	Senior Software Engineer
	Domain: Providing Online-Store-as-Service Title: Technical Manager Technologies Backend: Java 8, Spring Boot 2, Apache Kafka, MySQL, Redis, Nginx, Docker, Jenkins, Nexus Frontend: Angular 7 Microservices: "Kernel", "Catalog", "Order", and "Payment" with separate databases			
6 Fanap (FanapSoft dept.) http://en.fanap.ir	2018/10	Now	Part time	Platform Consultant
	2015/06	2018/09	<u>3</u> Years & <u>4</u> Months	Senior Software Engineer
	Domain: ERP and PaaS Title: Head of Data Management & Operation <ul style="list-style-type: none"> Developing 'Metis' for ERP as data management product Developing 'Ares' for operation Server & VM configuration, Product deployment as RPM bundle Technologies: Java, Wicket, Spring, Maven, Hibernate, JQuery, Easy UI, Groovy, Tomcat, Oracle DB			
5 Dotin (Subsidiary of Fanap & Bank Pasargad) http://dotin.ir/en	2012/03	2015/05	<u>3</u> Years & <u>2</u> Months	Senior Software Engineer
	Domain: Banking and Financial Title: BI & Data Warehouse Technical Leader <ul style="list-style-type: none"> Developing software for ETL, BI, Customer Club, and AML Developing ETL processes to fetch data from main systems and store them in DWH Technologies: Java, Wicket, Spring, Maven, Hibernate, Easy UI, Groovy, Tomcat, Oracle DB, Mondrian, JQuery			
4 Fanap (Subsidiary of Bank Pasargad) http://en.fanap.ir	2008/03	2012/02	<u>4</u> Years	Senior Java Developer
	Domain: Banking and Financial Title: Senior Java Developer in E-Payment Switch <ul style="list-style-type: none"> Developing a web application as the UI for the E-Payment Switch Developing use cases and tasks in E-Payment Switch Developing TMS (Terminal Management System) Technologies: Java, Wicket, Hibernate, JQuery, Groovy, Tomcat, Apache MINA, Oracle DB			
3 Paniz	2004/12	2008/02	<u>3</u> Years & <u>3</u> Months	Shareholder, Senior Java & ASP.NET Developer
2 Javane Software	2004/04	2004/11	<u>8</u> Months	Java Developer
1 Chapar Shabdiz	2003/06	2004/03	<u>10</u> Months	Java Developer
Total > <u>10</u> Years				

EDUCATION

Degree	Major	Minor	Grad Year	GPA	University
MS	Information Technology Engineering	Ecommerce	2010	18.08 / 20	K.N. Toosi University of Technology Tehran, Iran http://www.kntu.ac.ir/index.aspx?lang=2&sub=0
<p>Thesis: Using a real usecase of target marketing for POS devices based on their transactions and their merchants information, I achieved following goals:</p> <ol style="list-style-type: none"> 1. I <u>proposed</u> a new behavioral analysis based on RFM, called RF*M*, to adapt the scoring to banking domain. 2. I assigned class labels to POSs based on clustering RF*M* result. <ol style="list-style-type: none"> a. I applied k-means, SOM, ULVQ, and ALVQ clustering algorithms, and evaluated the results using Dunns and Silhouette indices. b. I <u>proposed</u> a new clustering algorithms based on LVQ, called GMLVQ, which calculates the neurons' weight based on a new formula. Experimental results showed my proposed approach outperformed the above algorithms according to the aforementioned indices. 3. I generated target marketing rules applying PART and RIPPER rule-based classification algorithms over the demographic fields of a POS's merchant as independent variables and generated class label as dependent one. 4. I <u>proposed</u> a clustering evaluation index, called TTADE. 					
BS	Computer Engineering	Software	2004	15.56 / 20	University of Tehran Tehran, Iran http://ut.ac.ir/en

PUBLISHED PAPERS

<p>Bizhani, M., Tarokh, M.J., "Behavioral rules of bank's point-of-sale for segment description and scoring prediction", International Journal of Industrial Engineering Computations (IJIEC), Growing Science, 2011</p> <p>http://growingscience.com/ijiec/Vol2/IJIEC_2010_25.pdf</p>
<p>Bizhani, M., Tarokh, M.J., "Behavioral Segmentation of Bank's Point-of-Sale using RF*M* Approach", IEEE International Conference on Intelligent Computer Communication and Processing (ICCP 2010), 2010</p> <p>http://ieeexplore.ieee.org/abstract/document/5606461</p>