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Istvan Farkas – Lead Software Engineer

## Summary

* Over 10 years of experience developing applications using Java technologies in Financial and Banking, both on UI and back-end.
* Expertise in analysis, design, development, testing and maintenance of large scale object oriented applications.
* Strong in back-end development and design using Oracle/DB2/PostgreSQL.
* Experience in cloud development.
* Highly motivated, results oriented and leadership skills with great team ethics.
* Good communication, interpersonal skills and problem solving skills.
* Hands on experience in quality-focused development.

Skills and Awards:

* Agile: Software Development Methodologies: Feature Driven Development (FDD), SCRUM, Test-Driven Development;
* Java: Integrated Development Environments: Eclipse IDE, IntelliJ IDEA;
* Java: JEE Frameworks: Hibernate, Spring Batch, Spring Framework;
* Java: Programming Technologies: Java EE, Java SE;
* Java: Messaging Systems: Java Message Service (JMS);
* Java: Building Tools: Maven;
* Java: Netflix OSS: Netflix Eureka, Netflix Hystrix, Netflix Zuul;
* Java: Spring: Spring Boot, Spring Cloud;
* Testing: Test Types: Extract, transform, and load (ETL) Testing.

## Work Experience

**May-2017 - Till now (Jun-2018)** - Solution architect, EPAM Systems, http://www.epam.com

**Customer:** CORETransform

**Project:** DIPP / Verimi

**Team Size:** 6 team were involved in the project, more than 60 people.

**Project Role:** Solution architect

**Tasks performed:**

* As a solution architect I had been involved from the very beginning of the project, started with team ramp up, knowledge sharing, client visit, architectural design and implementation.
* Since the application had CQRS-based microservice architecture, my job was to design a contract-first REST API layer based on Swagger/OpenAPI 3.0. The API was generated from YAML/JSON contracts and worked not only as code but documentation. The contract-based approach helped us to follow proper versioning of the API as well.
* Also facilitated demo sessions and architect board meetings.
* Beside taking part in the foundation of the entire architecture and infrastructure, I supported the development teams in solving quality related issues (security testing).
* My additional responsibility was to design and consolidate the application API in order to make it available for mobile team and 3rd party vendors.

**Environment:**

* Cassandra, PostgreSQL, in-memory
* MS Visio, IntelliJ IDEA, SonarQube, Docker, Kubernetes, Prometheus, ELK stack, Jenkins, Zipkin, Swagger (API design), Gradle, Apache Kafka, etc.
* Spring Cloud, Spring Boot, Cassandra, PostgreSQL, OAuth2, OpenId Connect, Spring Security, REST, CQRS, Microservice, Event-sourcing

**Nov-2016 - Apr-2017** - Senior Software Engineer, EPAM Systems, http://www.epam.com

**Customer:** UBS Wealth Management Americas

**Project:** Technological migration of an OSGi/Sybase application to SpringBoot/Oracle.

**Team Size:** Close to client participation.
5 developers, 1 Database Developer

**Project Role:** Back-end and UI developer

**Tasks performed:**

* Back-end and UI development.
* Software testing.

**Environment:**

* Sybase, Oracle
* IntelliJ IDEA, SpringBoot, Java8, Apache Camel, Maven, SVN, Jira, Confluence
* SpringBoot, Java8, Apache Camel

**May-2014 - Oct-2016** - Software Engineering Team Leader , EPAM Systems, http://www.epam.com

**Customer:** UBS Wealth Management Americas

**Project:** Volcker Rule - Metrics & Reporting
Daily aggregation of five years volume trading data in order to present reports to financial regulators. The application transforms source data from several external systems to metrics, and make them available to different departments.

**Team Size:** 1 Team lead, 4 Java Developers, 1 Database Developer, 1 Manual Tester, 1 Business Analyst

**Project Role:** Developer team lead

**Tasks performed:**

* Negotiating (non-)functional requirements and design considerations with the business representatives.
* Designing and implementing back-end functionalities, database processes and ETL flows.
* Improving performance of low performing components while extending the tiers with new features.
* Organizing and conducting cross-team code reviews, design-related discussions and regular scrum meetings.
* Supporting team members, mentoring new joiners, helping business analyst and QA.
* Taking responsibility for product delivery and deployment.
* Contributing in the POC phase of the development in order to establish the foundation of the application.

**Environment:**

* Oracle 11g
* Spring (Core, Batch, MVC), JUnit, Mockito, DBUnit, Apache Camel, Fuse, Maven, IntelliJ IDEA, SVN, TeamCity, Jenkins, Sonar, Jira, Confluence
* Java SE 7, Spring, OSGi

**Sep-2013 - Apr-2014** - Senior Software Engineer, EPAM Systems, http://www.epam.com

**Customer:** UBS Investment Bank

**Project:** FX Strategic Renewal - Regional Account Processing (RAP)
A cloud-based straight through processing of account-to-account flows between Investment Banking and Wealth Management. Beside the downstream and upstream message delegation it was responsible for transformation, enrichment, validation, error reporting, amendment and cancellation handling, as well as message distribution.

**Team Size:** 1 Team Lead, 6 Java Developer, 1 Automated Tester, 1 Business Analyst

**Project Role:** Backend Java Developer

**Tasks performed:**

* Implementing back-end features.
* Maintaining environmental configurations of external systems.

**Environment:**

* Oracle 11g
* IntelliJ IDEA, Eclipse, Git, Maven, TeamCity, Toad, Rally, Confluence
* Java SE 7, Spring, Real Time Transaction Processing

**May-2010 - Sep-2013** - Software Engineering Team Lead, Loxon Solutions

**Customer:** Raiffeisen Bank Aval, Erste Bank, etc.

**Project:** # IFRS Provisioning / Days Past Due
As the lead developer of Loxon’s IFRS Provisioning product I am involved in the entire development lifecycle from design and coding phase through change request handling with resource estimation to release management. Since this product has a long-term continuous support and extending branched UAT processes we pay extra attention to automated, reproducible and well documented test procedures, especially as we must conduct support on several environments side-by-side. In order to provide high availability product I got familiar with clustered server topologies fully maintained by release and administrative scripts. By covering a wide portfolio (retail and corporate) database performance became highlighted hence partitioning and other dynamic effectiveness enhancements are applied together with regular AWR report verification.
# Algorithm Editor I participated in the design and development of Loxon’s Algorithm Editor product which is a JSF/JPA/ Groovy/PlSql/FreeMarker based dynamic calculation logic editor where I gained skills in generating highly universal procedures based on abstract business models.

**Team Size:** 1 Team Lead, 2 Java/Oracle Developers, 2 Business Analysts

**Project Role:** Development team lead, delivery manager, solution architect

**Tasks performed:**

* Requirement refinement and application design with business representatives.
* Preparing logical/physical/feasibility plans.
* Leading and mentoring.
* Offsite/onsite development, operational support and IT consultancy.
* Database modelling and performance optimization.

**Environment:**

* Oracle 10g / 11g; MSSql; MySql
* IBM WAS6/7, JBoss, AIX/RHEL, Eclipse, IntelliJ IDEA, Enterprise Architect, Subversion, Jenkins, Jira, JUnit
* Java SE 6, JPA (Hibernate), EJB3, Quartz Scheduler, etc.

**Aug-2009 - May-2010** - Senior Java Developer / Oracle developer / Software architect, Alerant Inc.

**Customer:** Raiffeisen Bank, AstraZeneca

**Project:** # Integrated Transaction Tracking System (ITTS) - Raiffeisen Bank Plc. / Alerant Inc.
In order to migrate and integrate the WebLogic based ITTS at Raiffeisen Bank Inc. I had to develop a technical prototype application to map the facilities of EJB 2.1 (and 3.0) and message queuing on IBM WAS 6.2 & MQ. Based on the prototype we have successfully suited our event-driven solution on IBM WAS for the sake of connecting existing back-end systems.
# Presto Financial - AstraZeneca Plc. / Alerant Inc.
Taking part in the second-phase development and refactorization of an allocation and budget planner application of AstraZeneca Plc. In this project coding and modeling was aided by MDA using MagicDraw with AndroMDA.

**Team Size:** 4-6

**Project Role:** Technical Architect, Software Designer J2EE - Oracle developer / Software architect

**Tasks performed:**

* IT consultancy
* Offsite/onsite development
* Preparing requirement specifications and feasibility plans
* Database modelling

**Environment:**

* Oracle
* Eclipse IDE; Magic Draw; Internal test frameworks for telecommunication protocols
* IBM WAS 6.2, Oracle WebLogic, GWT Ext, EJB2.1 - 3, messaging protocols (UCP, MM7, MLP)

**Jun-2008 - Jul-2009** - Senior Java Developer / Oracle developer / Software architect, Alerant Inc.

**Customer:** Magyar Telekom Group, Hungarian Law Enforcement

**Project:** # Messaging Gateway (MGW) - Magyar Telekom Plc. / Alerant Inc.
Design and implementation of a gateway application based on the messaging protocols (UCP, MM7, MLP) that able to process messages both synchronous and asynchronous way, and can deal with different message loads depending on profile configuration (batch or single transaction). According to the JCA standard both inbound and outbound communications were possible and client applications were able to use JMS or WebService entry points to send or receive messages.
# Distribution Layer (DL) - Magyar Telekom Plc. / Alerant Inc.
Design and implementation of a so-called proxy application that can hide the distinct portals and content management systems of Magyar Telekom Inc., able to uniformly manage authentication and, in addition, it can act as a cache of application-generated content. The GWT-Ext based administrative application of the DL provides facilities to the runtime management of different deployment environments.
# Complex Order - Magyar Telekom Plc. / Alerant Inc.
Taking part in the BPM development of the Product Marketing Workflow with the use of Oracle BPM (BEA Fuego).
# Taking part in the GWT-MVP/Hibernate based topographical application of the Hungarian Law Enforcement. My responsibility was to design and work out reusable server and client components to gain standard business functioning and appearance.

**Team Size:** 4-6

**Project Role:** Technical Architect, Software Designer J2EE - Oracle developer / Software architect

**Tasks performed:**

* IT consultancy
* Offsite/onsite development
* Preparing requirement specifications and feasibility plans
* Database modelling

**Environment:**

* Oracle
* Eclipse IDE; Magic Draw; Internal test frameworks for telecommunication protocols
* IBM WAS 6.2, Oracle WebLogic, GWT Ext, EJB2.1 - 3, messaging protocols (UCP, MM7, MLP), JSE, JEE, GWT-MVP, Hibernate

**Jul-2007 - May-2008** - J2EE - PostgreSQL developer / Software architect, ALERANT INC.

**Customer:** ALERANT INC.

**Project:** # Design and development of a prototype database structure, which is able to deal with entities in a semantic way.
- Creation of a partitioned database layout that can store extensible metadata (or “hyperdata”) without structural modification using the facilities of PostgreSQL 8.3.
- Import the information prepared by experts into the database in „bottom-up” manner and build-up of the semantic relationship between the entities.
# Prepare architectural plans, software specifications, UML structure diagrams, and other project documents to aid the creation of a technical prototype server-side application.
- Definition and elaboration of a model and controller layer using Spring Framework and an ORM layer for specifically fast data manipulation with special query mechanism.

**Team Size:** 6

**Project Role:** J2EE - PostgreSQL developer / Software architect

**Tasks performed:**

* Architectural planning
* Back-end development
* Performance tuning
* Database modeling
* Performing DBA tasks

**Environment:**

* PostgreSQL 8.3
* Eclipse IDE
* Spring FW

**Sep-2005 - Jul-2007** - J2EE - Oracle developer / Software architect / IT consultant, Lippert Software&Consulting

**Customer:** K&H Bank, Erste Bank Hungary, Volksbank Hungary

**Project:** # Design and implementation of J2EE / Struts / Hibernate based financial applications for banks
- AMR credit monitoring system for K&H Bank
- Loan monitoring and scoring application for Volksbank Hungary
- Methodus Applications scoring and calculation engine for Erste Bank Hungary, Volksbank Hungary
# Developing the GWT / AJAX based web site of Bless Software Ltd.
- Trying out GWT base abilities in the field of site building
- Participating in the re-development of JSP / Tag Library based GUI component framework to GWT technology

**Team Size:** 4-6

**Project Role:** J2EE - Oracle developer / Software architect / IT consultant

**Tasks performed:**

* Offsite/onsite development
* IT consultancy
* Requirement clarification and specification
* Database modeling
* Architectural planning

**Environment:**

* Oracle, IBM DB2
* Eclipse IDE
* GWT, Struts, Hibernate

**Nov-2000 - Aug-2005** - J2EE - Oracle developer / Software architect, Idom 2000 Konzulens Zrt.

**Customer:** Hungarian Administrative Authority and Law Enforcement

**Project:** Design and implementation of J2EE / Oracle based applications for administrative authority and law enforcement.

**Team Size:** 4-8

**Project Role:** J2EE - Oracle developer / Software architect

**Tasks performed:**

* Development
* Performing DBA tasks
* Database modeling

**Environment:**

* Oracle
* Eclipse IDE, NetBeans IDE
* J2SE, J2EE, Ant, etc.

## Education

**Name of the Education Establishment:** University of Pannonia

**Faculty/College:** Information Technologies

**Degree (diploma):** Master

**Specialty:** MEDICAL INFORMATION TECHNOLOGY