

# CURRICULUM VITAE

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**PROFESSIONAL OVERVIEW:** More than 9 years as a successful/ passionate professional software engineer leveraging Java ecosystem, C/C++, and JavaScript, SQL, UNIX/Linux in investment banking, civil aviation and transportation industry, oil and gas industry, medical industry, online e-commerce retail industry, public and governance sector.

**Industries/project-type:** e-trading platforms for banking/ finance industry, logistic hubs, airline booking engines, data processing using distributed computing, border management systems, passport issuing systems, vehicle registration systems, information portals, web e-commerce systems, e-banking, middleware inter-process communications artifacts.

## EDUCATION

Diploma Engineer, University „POLITEHNICA” of Bucharest, Faculty of Automatic Control and Computers, 2001-2006, Bucharest, Romania.

## HONORS

“Leonardo da Vinci” Mobility Programme RO/2006/PL97046/S “Modern techniques for automatic identification”, Department of Computer Science, University of Turin, Italy, April-June 2007

## IT CERTIFICATIONS

Sun Certified Business Component Developer Java EE Platform 5, CX 310-091, 2010, Sun Certified Developer for Java Web Services, CX – 310-220, 2008, Sun Certified Web Component Developer for the Java Platform, Enterprise Edition 5, 2008, Sun Certified Programmer for the Java Platform, Standard Edition 6.0, CX-310-065, 2008

## EXPERIENCE

### Senior Associate Developer

**Sep 2015 - present**

**Employer:** JPMorgan Chase & Co UK, Investor Services, CIB, Prime Brokerage, 35 Waterloo St, Glasgow Technology Center G2 6HS, [www.jpmorganchase.com](http://www.jpmorganchase.com)

**Responsibilities:** participate in all phases of the software development life cycle: user requirements analysis, writing detailed designs, implementation, support, debugging and unit testing according to Agile methodologies in place, lead/trained JPMC resources and contractors (Mphasis, Accenture, Galatea Associates)

#### Projects and tasks:

Custdy and Fund Services (CFS) Programme – aims to create a more efficient and uniform process for Contract for Difference (CFD) processing eliminating a multitude of manual client specific user development tools to process the product. CFS provides a scalable automated infrastructure across Investor Services impacting functions such as: reference data, trade and position management, corporate action and income processing, pricing and valuations, reconciliations, settlements, accounting and reporting

- Successfully enhancing the Equity Swaps platform to allow CFD processing using IBML/FpML logical data modelling
- Decomposition of equity swaps monolith platform into small manageable Microservices to allow trade capture/trade lifecycle and exception management scenarios with upstream Pre-Trade system
- Successfully designed and architected a configurable and automated/on demand client reporting downstream feeder to multiple recipients supporting multiple deliverable mechanisms (SFTP, AMPS) using messaging systems and enterprise integration patterns (Spring Integration)
- Provided market data integration with reference data technology for instruments and party/party account
- Integrated Equity Swaps platform with middle office fund accounting mainframe leveraging FIX protocol, JPMC Moneta Bootstrap (Angular 2.x) and Pivotal Cloud Foundry Global Real Time Position Keeping Service - **GRIPS** –part of the US Equities Swap direct market access initiative aiming to offer a low-latency equity swap execution through the FIX internal order management service. GRIPS leverages Pivotal Gemfire to create an in-memory pool of allocated locates from Equity Finance trading desk and integrated with upstream systems to trigger automated requests when pool utilization falls below a designated threshold value.
- Architected and developed a automated testing regression tool using BDD for incremental software releases
- Integrate GRIPS with SonarQube a development efficiency index tool for code quality and continuous code inspection
- L3 support during EMEA start of day/intraday trading

**Technologies:** Java 6/7/8, Java EE (legacy platforms using JBoss), Spring 4.x framework (Core, Boot, JavaConfig, JDBC, Integration, Data, Retry, Cache, JMS, MVC), Spring Pivotal Cloud Foundry, Angular 2.x with TypeScript, Mule ESB, Pivotal Gemfire, Oracle Database, JSON, XML/FpML/IBML, Google Protocol Buffers v2.0, IBM MQ, HornetQ, ActiveMQ, AMPS (from [www.crankuptheamps.com](http://www.crankuptheamps.com)), Cucumber, Jacoco, Cobertura, Apache PIT, Google Guava, Oracle Database 12c, Jersey

## Senior Software Engineer

**Mar 2014 – Aug 2015**

**Employer:** *COMPUTAS IT* Romanian subsidiary of foreign-owned systems integration and software development outsourcing company (2012 net sales in the range of millions of EUR, payroll less than 100), Bucharest, [www.computas.ro](http://www.computas.ro)

**Responsibilities:** participate in all phases of the software development life cycle: user requirements analysis, writing detailed designs, implementation, debugging and unit testing according to Agile methodologies in place.

### Projects and tasks:

- Logistics hub: automated tracking of goods within the supply chain of onshore/offshore facilities of oil companies
- Architected and developed UI web application using XHTML, CSS, jQuery, XSL Transformations and Xpath; implemented REST-full services based on EPCIS - EPC Information Services Standard and ISO 15926 industrial automation standards for: Cargo Containing Unit's, Organization, Hire, Journey, Leg, Observations, Documents, Events model; developed Templates, UI Components using SPARQL Web Pages for Legs, Journeys and Observations data models.

**Technologies:** javascript, jQuery, XSLT, XSD, XML, XHTML, Java 1.7, Apache Tomcat 7.x, Apache Maven 3.x, Apache CXF 2.7.x/ JAX-RS 2.0 - JSR 339, Google Guava, Apache Commons;

Semantic: SPARQL, RDF/RDFS, SWP developed with TopBraid Composer Maestro Edition-IDE, TopBraid Live Enterprise Server, Oracle 12c with RDF support

## **Java Software Engineer**

**Aug 2013 – Feb 2014**

**Employer:** KEBA Automation SRL, Romanian subsidiary of foreign-owned industrial, banking & energy automation company-Romanian subsidiary develops proprietary software for foreign company-manufacturer of automation equipment (2012 net sales lower than 10 Mil. EUR, payroll of less than 50 employees), Bucharest, [www.keba.com](http://www.keba.com)

**Projects and tasks:** developed middleware software applications to be used with banking automation equipment. Performed detailed analysis of the incidents reported by customers, transactions reconciliation and application errors. Created bug reports based on reported incidents and applications log files. Developed proprietary communication protocol for banking terminals. Developed customized ATM transactions software for foreign and Romanian banks. Integrated 3rd party payment/money transfer systems-Western Union. Improved Maven build scripts for automatic deployment into several production environments.

**Technologies used:** Java 1.6, C# .Net 2.5, ActiveX, JavaScript, Bash shell scripting, Maven, Spring Core/MVC/ORM/JDBC/AOP/Security/JMS, Jasper Reports, Hibernate 3.x, Swing, Netbeans IDE, Netbean Visual Library API, JMS ActiveMQ, IBM MQ 6.x, Oracle, MySql, H2, Derby, Apache Commons, Google Guava, junit, dbUnit, EasyMock, Mockito, XStream, XML-Apis, JAXB, JAX-WS, SoapUI.

## **Freelance Java Software Engineer**

**Apr 2013 – Aug 2013**

**Contractors:** Anritsu Srl, Italian subsidiary of foreign-owned measuring instrument manufacturer, Rome-Italy (project-based related to the engineering of measuring instruments proprietary software, 4-month project); Romanian systems integrator-one of Top 5 companies in segment (project-based work on a Client Relationship Management-CRM application for a major power utility company, 4-month project), Bucharest, [www.anritsu.com](http://www.anritsu.com)

**Tasks:** performed reverse engineering work of the Hadoop version 1.x IPC low level protocol to C/C++, and integrated Hadoop into middleware MasterClaw engine; related to the CRM application: developed custom made modules of standardized files, designed portal user interface, integrated application with 3rd party SAP/Energy products. Published on Git-Hub for the open source community under <https://github.com/popovici-gabriel/projects.git>

**Technologies:** Java 1.7, JAXB, Oracle Server, SAP Java Connector 2.x, Hibernate 3.x, Spring MVC, Spring ORM, Spring JPA, Spring JDBC, Apache Wicket, Apache POI, Apache iText, Jasper Reports, Google Guava

## **Java Software Engineer**

**Dec 2011 – Feb 2013**

**Employer:** Sabre Holdings, Airline Solutions US-based proprietary software development company-travel industry, USA-based job under H1B visa status

**Responsibilities:** Design, develop, integrate, unit test, code review software requirements according to Agile practices and methodologies in place

**Projects and tasks:** performed active software engineering role in the development of a complex online booking engine/e-commerce application.

**Technologies:** Java SE 1.6, Spring Core/WebFlow/ORM/JPA/JDBC, Apache CXF, junit, Apache Commons, Hibernate.

## **Software Engineer/Systems Administrator**

**Jan 2011 – Nov 2013**

**Employer:** Z-Terra Inc. US-based proprietary software development company for the oil exploration and production industry, US-based job under H1B visa status, [www.z-terra.com](http://www.z-terra.com)  
**Tasks:** provided technology support for employees and customers; managed small computer farm (50+ Unix/Linux systems) of high performance computer data centers; developed Z-Eos Seismic data inspection: GUI application viewer(2D) for seismic data.  
**Technologies:** C/C++, Qt SDK, Qwt Project, Glib, lib PVM, cmake/qmake, Qt Creator, IDE, Eclipse CDT, SQLite, Stanford Exploration Lib - SEPLib.

## **Software Engineer**

**Nov 2007 – Dec 2011**

**Employer:** Canadian Bank Note International Europe, Romanian subsidiary of one of the largest specialized foreign-owned printing companies worldwide, Bucharest (Romanian subsidiary develops specialized software applications for governments worldwide), [www.cbnco.com](http://www.cbnco.com)

**Projects:** vehicle registration portal, driver license issuing system, passport issuing control systems, border management systems.

**Tasks:** implemented dynamic report generation using Apache POI, engineered change requests, improved error handling and logging mechanism, developed web application scheduler, developed centralized task scheduler mechanism using JAX-WS SOAP web services and java 1.5 concurrency API, engineering change requests, dynamic PDF generation, UI front end development.

**Technologies:** Microsoft Visual Studio 2005, Eclipse, Java 6, Hibernate, Crystal Reports, Apache XML-RPC, Servlet 2.4, Tomcat 6.x, Rhino, OpenSCDP, MFC, Apache Axis 1.4, Servlets 2.4, JSP 2.0, JSTL, Struts 1.3.10, Java Mail, Hibernate, Crystal Reports, Tomcat 5.x, Log4j, Ant, Java 5 SE, JSP/Servlets, JSTL, Javascript, iText, JAX-WS, Struts 1.2.9.

## **Internship – Junior Software Developer**

**Jun 2007 – Oct 2007**

**Employer:** Reply IT, internship in Milan-Italy with an Italian software development firm

**Projects:** on-line banking system

**Tasks:** developed rich graphical user interfaces for the online banking system

**Technologies:** Java SE 1.5, JSP 1.2, JSF Apache MyFaces, Ajax4JSF(RichFaces), Java Servlets 2.3

## **Junior Software Developer**

**Aug 2006 – May 2007**

**Employer:** Canadian Bank Note International Europe, Romanian subsidiary of one of the largest specialized foreign-owned printing companies worldwide, Bucharest (Romanian subsidiary develops specialized software applications for governments worldwide)

**Projects:** vehicle registration portal and vehicle technical inspection application

**Tasks:** web application development, bug fixing, unit testing

**Technologies:** Java SE 1.5, Java Servlets/JSP, Struts 1.2.9, Hibernate, Javascript, junit, Tomcat 5.x, Ant