Nicolae Petridean

Senior Software Engineer, Software Architect, ISDC, Cluj
Napoca, Romania

Age: 33
Nationality: Romanian

CURRICULUM VITAE

Contact Details

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EXPERIENCE

May 2017 – Present: Software Architect / Big Data & Machine Learning engineer – Porsche Engineering

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- main activity : self-driving components in the safety and prediction area / highly automated driving functions (path planning).
- technical responsible for Artificial Intelligence team
- data ingestion & analytics pipelines with Spark and Hadoop, ELK stack, Kafka and Cassandra, both python and java – digital map with friction and road quality annotations (prediction)
- machine learning predictive models (cut-in detection / build an alternative to adaptive cruise control based using supervised machine learning)
- data analytics & data visualization
- IOT Proof of concept car-cloud-car communication, data gathering and local data analytics inside the car

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August 2016 – May 2017: Senior Software Engineer / Software Architect - Neverfail

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Mainly involved in a workspace-as-a-service cloud product.

https://neverfail.com/products/workspaces-workspace-as-a-service-software/

Part of the architecture team, working on Security, User and identity Management, Authentication and Authorization for Cloud Platform.

May 2015 – August 2016: Software Architect , projects with RaboBank Netherlands and RaboBank International

- Portal for corporate customers : Rabo Transact (www.rabotransact.com), RaboBank eclient, RaboBank generic transformers

Technology stack around Websphere AS and Websphere Portal, Spring, AngularJS.

Portal application providing an integrated range of intelligent domestic and international cash management solutions, treasury management, trade services and supplier finance services.

- started implementation of Continuous Delivery. Deployment automation with Xebia stack.
- test automation framework based on BDD with Cucumber
- functional split of the application into multiple vertical units.
- standardize tooling, frameworks, environments.
- develop an integrated environment between the client and the vendor to facilitate development and integrated testing.
- software quality and architecture audit
- bid and presales

ISDC Identity and Authorization Management Component

October 2014 – May 2015: Software Architect for ISDC product

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http://www.getStage.io

State transition and generation engine .

The architect for a product sold to several customers. Guide the technical responsibilities over a team with a more than 10 people, refactoring, communication with project stakeholders and management team. Mainly responsible with technical advise for the team & customers, responsible for testing, bids , sell the architecture to external & internal parties,

Already sold to several external clients.

May 2014 – September 2014: Senior Developer with Architect responsibilities

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Generic pension platform for several companies.

Same technology stack as the one for the state transition and generation engine above (architect position)

PoliService NL as client

FEBRUARY 2013 – DECEMBER 2013: Independent Software Architect/Developer

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Working on various projects for a company in Germany, especially involved in online payments and social media related projects, end customers: very big companies in telecom industry.

Technology stack: Spring and Hibernate. Deployment in Tomcat and Jetty.

JANUARY 2013 – May 2014 / ISDC, CLUJ - NAPOCA, ROMANIA / SENIOR DEVELOPER (solutions team)

ISDC Solutions Team

Joined the Solutions team where I was involved in different projects: Online pension advice – questionnaire engine and client for pension advice in insurance companies generic solution, Network Financing – crowd funding platform, Saving Optimizer , Personalization/Recommendation Engine, YouBank – banking platform ,Visit guide mobile server side

integrated with Google places, Hotels apis for assisting a visit in a specific EU city, Questionnaire engine + state traisition egine integrated with ISDC proprietary DSL/BPMN tools.

ROLE
Senior Developer / Architect

MAIN ACTIVITIES
Project start-up, defining the architecture and Software Architecture document together with the other architects, implementing a major number of cross cutting concerns: transaction management, logging, testing concept, integration, deployment, continuous integration.
Definition of an internal state / workflow engine.
Research tasks
Development tasks
Code review

Technology stack: CDI, Jersey and EclipseLink. AngularJS for frontend development. Deployment In JBoss.

NOVEMBER 2012 – DECEMBER 2012 / ISDC, CLUJ - NAPOCA, ROMANIA / SENIOR DEVELOPER

EDIA
E-Learning platform. Enhance existing platform with new sub modules.

ROLE
Senior Developer

MAIN ACTIVITIES
Participated in the Project start-up phase, requirements analysis, environment setup and deployment.
OSGi and Virgo research tasks for the new modules we had to build in the platform.
Working close to the client for clarifying and proposal of the functional/technical specifications,
Development/implementation tasks on both backend and front end layers, writing unit tests

Technology stack: OSGI –Eclipse Virgo, Spring, Spring MVC, Spring Security, Hibernate.

APRIL 2012 – NOVEMBER 2012 / ENDAVA, CLUJ - NAPOCA, ROMANIA / SOFTWARE DESIGN LEAD

DEUTSCHE TELEKOM / CLICK AND BUY (DTAG Online payment department) – CARD MODULE
SOA services supporting Mobile devices, admin interface and web interface for card management: payments, prepaid cards, NFC, virtual cards for online payments.

ROLE
Software Design Lead

MAIN ACTIVITIES
Responsible for System architecture, overall project quality from the development point of view, Develop and maintain best practices, support system testing, assist the team with the technical, issues, coordinate system installation, system integration with third parties (e - Payment gateways), design together with the client future work. I was doing also development up to 75% of my time.

MARCH 2011 – APRIL 2012 / BETFAIR, CLUJ - NAPOCA, ROMANIA/ JAVA ENGINEER

ACCOUNT AND PAYMENTS PROJECTS

ROLE
Platform Java Engineer, Security Champion

MAIN ACTIVITIES
The candidate as a Java Developer of a Platform team cuts across all games/platform/markets at Betfair. I worked in the middle tier in Java/J2EE using Spring, Struts, GWT, Web Services, backed by JDBC (Oracle 10g database). Key responsibilities are related to account management, payments, new services for session management, authentication services, customer security enhancements, customer account services, integrating Betfair platform with 3rd party payment gateways like PayPal, EuTeller, Netteller, Moneybookers, Atos Origin and others. Large distributed application, lots of integration work here with internal old components or third parties (Country regulators for legislation (Italian regulator, Danish regulator, Spain regulator), User identification 3rd party providers (Italy, Spain, Denmark).
From a technical point of view his key responsibilities include:

• Software design according to the requirements both business and architectural;
• Production of high quality code to agreed designs with automated unit tests and integration tests;
• Maintaining Java software (implementing changes in accordance to new or amended requirements);
• Collaborating with stakeholders to gather and refine requirements;
• Participating in peer code reviews.
• Deployment, deployment scripts
• As a security champion I was involved in different security audits, code improvements from a security point of view, obtaining security signup before the releases.

DECEMBER 2009 – MARCH 2011 / ISDC, CLUJ – NAPOCA, ROMANIA / JAVA DEVELOPER

DECEMBER 2009 – MARCH 2011/ CENTERPARCS
Is about family holiday's provider across Europe and UK.
Multiple projects: web based app, mailer system, GAE based app

ROLE
Java Developer

MAIN ACTIVITIES
For this product I was involved in three projects: **First of them** is a web-based application that managed interactions between consumers and holidays dealers on one side and the Centerparcs / Sunparks on the other side. I was involved mainly in search & availability for stays in Centerparcs villages, booking system, customer registration and OGONE online payments. This application was built on an EJB3 architecture. **The second application** I worked on was a mailer application, used by almost all Centerpatcs application to send automatic emails for various purposes such as customer registration, password change, booking emails, e-tickets and broker emails. This application was built using JMS messages. **The third application** I was involved in was a cloud based Java application (on Google application engine), a customer support application for voucher generation using a NOSQL database (Google BigTable), and mapReduce together with Task Queue Api for fast and large amount of vouchers generation. Finally, he participated in various performance improvements on GAE application, but also for the first application too (the web-resource application). I used both agile methodologies for this project.

JULY 2010 – AUGUST 2010 / ISDC, CLUJ – NAPOCA, ROMANIA / JAVA DEVELOPER

JULY 2010 – AUGUST 2010 / LOI
NL based E-Learning platform

ROLE
Java Developer

MAIN ACTIVITIES
Joined the team for a short period to help with some integration tasks, Gartner tool.
Development/implementation tasks on both backend and front end layers, writing unit tests, SQL.

OCTOBER 2008 – DECEMBER 2009 / SWETS/ SWETSWISE
SwetsWise is a web Application linking journal subscribers to publishers. It manages accounts for both subscribers and publishers offering specific functionalities. Some of the functionalities are subscribing to publications, adding claims, renewing, displaying statistical reports about usage, price, etc. It integrates with an old mainframe application with the help of SAP/XI keeping the databases in synchronization.

ROLE
Java Developer

MAIN ACTIVITIES
Swetswise is a J2EE application having the front-end tier built using Struts 1.2, JSP, DWR and jQuery and the back-end tier based on EJB technology and IBM DB2 database. During the first year that the candidate worked for this product he was involved in several projects, where he had to change and develop existing modules in the already existing product. His tasks varied depending on the tier of the application, from writing SQLs, to DAOs, to EJB calls, and finally creating new web pages using Struts, JSPs, Ajax through DWR and/or jQuery , and plain JavaScript for other web related stuff. This was the only project the candidate worked on a Linux operation system. I used Waterfall as software methodology.

August 2007 – August 2008 / Euro Tax Glass/ Web Based apps and core services

Euro Tax Glass is the leading provider of data, solutions and business intelligence services for the European automotive community. Products consists of a large distributed system supporting the integrated services of a common database within ovi.com by creating huge caches to improve get/put data retrieval and predefined indexes to improve searches. The whole product comes up as a layer over a huge database to enhance performance of it.

ROLE
Java Developer

MAIN ACTIVITIES
I was involved in three projects: two web-based applications that managed interactions between car dealers, and between consumers and dealers in ETG Company and ETG Clients network. Main business was second-hand car market and cars price evaluations for insurance companies and ETG partners. The candidate was also involved in the core services project serving the aforementioned web applications. Those services were built on Spring architecture. Agile methodology.

AUGUST 2008 – OCTOBER 2008 / ISDC / ETESTS WEB APPLICATION (ISDC)

ROLE
Java Developer

MAIN ACTIVITIES
Web-based application for internal use in ISDC. The application was used for interviews and technical tests. Finally, the application is used for technical skills tracking of the ISDC people.

JANUARY 2007 – APRIL 2007 / ARTSOFT CONSULT / TRIACTIVE SYSTEMS MANAGEMENT ON DEMAND (PART TIME)
Web based end-user self-service and specialist help desk, providing a unique solution for internet remote control, network systems management, and monitoring, asset management, configuration management.

ROLE
Java Developer

MAIN ACTIVITIES
Rewriting some old components
Maintenance
Change Requests

May 2006 – October 2006 / Devix Corporation / End to end e-commerce solution (part time)

ROLE
.Net Developer

MAIN ACTIVITIES
Maintenance developer.

TECHNICAL KNOWLEDGE

PLATFORMS/SYSTEMS
WINDOWS 95/98/2000/XP/7
UBUNTU LINUX

PROGRAMMING LANGUAGES
JAVA
Python
C++
C
FoxPro
Assembler
Pascal
SQL

FRAMEWORKS
SPRING 3.0
JSF: ICEFACES
HIBERNATE, JPA
EJB 3.0

WICKET, TAPESTRY, SPRING MVC, STRUTS

WEB DEVELOPMENT
CLIENT-SIDE TECHNOLOGIES (HTML, CSS, JAVASCRIPT, JQUERY, AJAX)
SERVER-SIDE TECHNOLOGIES (JSP/SERVLETS/COMPONENT BASED)
USABILITY & USER EXPERIENCE

APPLICATION/WEB SERVERS
JBOSS
TOMCAT
JETTY
RESIN
WEBSPHERE

WEB SERVICES
JAX-WS: SPRING WS, APACHE CXF, METRO, JBOSS WS
JAX-RS: JERSEY
AXIS2

RDBMS
ORACLE
MYSQL
DB2

BUILD TOOLS
Maven
Ant

CONTINUOUS INTEGRATION:
HUDSON
JENKINS
BAMBOO
ANTHILL PRO

DEPLOYMENT:
Chef, Maven

SECURITY:
1 way SSL, 2 way SSL, SAML, OAuth
Fortify

FUNCTIONAL KNOWDLEDGE

CLOUD (5 Years)
AUTOMOTIVE (4 YEARS)
FINANCIAL (3 YEARS)
PUBLISHING, SUBSCRIPTION MANAGEMENT (1,2 YEARS)
TELEKOM (1 YEARS)
TOURISM (1,5 YEARS)
BETTING, ONLINE GAMING (1,1 YEARS)
ASSET MANAGEMENT, NETWROK MANAGEMENT (0.5 YEARS)
E-COMMERCE (1, 5 YEARS)

LANGUAGES

ROMANIAN (advanced)
ENGLISH (advanced)
FRENCH (beginner)

EDUCATION

2002 – 2007

Technical University, Cluj Napoca. Faculty of Automations and Computer Science (technical university), Computer Science department, - B. Sc. in Computer Science (Technical ISCED Level 6 (Inginer Diplomat))

1998 - 2002

Mihai Viteazu High school Turda (informatics),Turda, Cluj county (Romania)

TRAININGS

Communication training – ISDC

Stakeholder Management training – ISDC

Emotional Intelligence training – ISDC

Public Speaking training - ISDC

OOAD training - ISDC

CERTIFICATIONS AND AWARDS

SCJP (2008) (Sun certified java programmer)

Cisco CCNA Certification (2006)

Machine Learning (Coursera)
Dec 2018, No Expiration Date
Credential Identifier Credential ID MNS3H8MRFHWW

Neural Networks and Deep Learning (Coursera)
Oct 2019No, Expiration Date
Credential Identifier Credential ID 4U3SK43U628E

Structuring Machine Learning Projects (Coursera)
Nov 2019, No Expiration Date
Credential IdentifierCredential ID KXSU37YWYHVE

Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization (Coursera)
Nov 2019, No Expiration Date
Credential Identifier Credential ID Q9X926HBL25D

Convolutional Neural Networks (Coursera)
Dec 2019, No Expiration Date
Credential Identifier Credential ID HEZUKB3GQ37Q

Sequence Models (Coursera)

Feb 2020, No Expiration Date

Credential Identifier Credential ID C9CKSUUVKABJ

Deep Learning Specialization (Coursera)

Feb 2020, No Expiration Date
Credential Identifier Credential ID FZYMK82HTJQ6