Șerban Petrescu

Occupation: Computer Engineer
Date of Birth: Sep 7, 1993
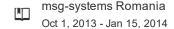Location: Cluj-Napoca, Romania
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Education

msg-systems Romania
Oct 1, 2013 - Jan 15, 2014

Techical Course - SAP ABAP Development
A series of lectures (held at TU-CN) and laboratories (hosted by msg) which served as an introduction to the SAP world.

Technical University of Cluj-Napoca
Oct 1, 2012 - Jul 1, 2016

Faculty of Computer Science and Information Technology. Computer Science - English specialization.
The courses at TU-CN covered both software and hardware advanced concepts.

Leonardo da'Vinci Project
Sep 1, 2011 - Oct 15, 2011

A month-and-a-half-long exchange project set in Leipzig, Germany.
I, along with about 15 other colleagues, studied basic web technologies (HTML, PHP, JS) at a local company (Robotron GmbH).

"Gheorghe Lazar" National College Sibiu
Sep 15, 2008 - Jun 15, 2012

Mathematics - Informatics specialization.
My first contact with programming. During this period, I've learnt C / C++, C# and PHP.

Work Experience

msg-systems Romania
Feb 1, 2016 - present

Promoted to IT Consultant.
Mostly full time involvement (with small exceptions during my bachelor degree thesis realization).

msg-systems Romania
Aug 4, 2014 - Feb 1, 2016

Employed as Associate IT Consultant.
I worked part time (6h per day) during the academic year and full time during the summers.

msg-systems Romania
Mar 1, 2014 - Jun 1, 2014

Internship (three months).
During the internship, I've been presented to and studied in-depth various new SAP technologies: UI5, Fiori, Netweaver Gateway.

Skills

Technical Languages

ABAP	Advanced
C / C++	Advanced
Java	Advanced
JavaScript	Advanced
Basic (VB, VBA, VBS)	Intermediate
HTML / CSS	Intermediate
PHP	Intermediate
SQL	Intermediate
SQLScript	Intermediate
Assembly	Basic
C#	Basic
Lisp	Basic
Prolog	Basic
VHDL	Basic

Technologies

Netweaver AS ABAP	Advanced
SAP UI5	Advanced
Java EE	Intermediate
Netweaver Gateway	Intermediate
RESTful APIs	Intermediate
SAP CDS (ABAP & HANA)	Intermediate
SAP Fiori	Intermediate
SAP HANA PAL	Intermediate
SAP HANA XS	Intermediate
Android	Basic
AngularJS	Basic
CMIS (Apache Chemistry)	Basic
Spring	Basic
Windows Phone	Basic

Databases

SAP HANA	Advanced
Apache Derby	Intermediate
MySQL	Intermediate
Microsoft SQL Server	Basic
PostgreSQL	Basic

Natural Languages

Romanian	Mother Tongue
English	Advanced
German	Basic

Projects

Next Generation Underwriting

Type: Work-related

Period: Current

Description: Project launched as a start-up for a small company part of the msg group. It focuses on aiding underwriters in their work through predictive analytics and pre-built business rules. My role in this project was similar to a full stack developer (working on all components of the application), whilst also being responsible for most of the design / architecture decisions.

Key Concepts: Java, R, MySQL, Olingo, JAX-RS, JavaScript, SAP UI5

GenRe GTFE Analysis Reports

Type: Work-related

Period: 2016

Description: A customer add-on to FS-RI (Financial Services - Reinsurance) for the General Reinsurance Company. The add-on consisted of three UI5 applications which pulled various performance indicators calculated by ABAP CDS views and exposed through Netweaver Gateway services.

Key Concepts: ABAP, ABAP CDS, Netweaver Gateway, SAP UI5

Taxonomic Engine

Type: Work-related

Period: 2015 - 2016

Description: A HCP, HANA, UI5 project for the human resources industry. The main goal of the project was to automatically parse and classify candidates based on their CVs.

Key Concepts: HANA XS, SQLScript, HANA PAL, HANA Text Analysis, SAP UI5, Fiori

msg.LRM

Type: Work-related

Period: 2014 - 2016

Description: Various projects centered on msg.LRM (Life Reinsurance Module). Initially, to get acquainted to the module and the underlying framework, I was part of the standard development team. Afterwards, I worked on various customization projects for different customers (Transamerica, Nan Shan Life).

Key Concepts: ABAP

Bachelor Degree Project

Type: Education-related

Period: 2015 - 2016

Description: A Shipment Management, Tracking and Analysis application targeted at the transport insurance industry branch. It consists of two tracking device prototypes (Android and Arduino) which communicate with SAP HANA based cloud services. These services store the data, send out notifications (by using a Java microservice) if certain conditions are met and process the collected figures to produce various statistics and analytical scenarios.

Key Concepts: Java, HANA XS, SQLScript, HANA PAL, Android, Arduino, C#, SAP UI5

EPM WebSocket

Type: Personal

Period: 2015

Description: A small personal project which realized the following technical achievement: real-time communication between an ABAP based user interface (classic Dynpro), a UI5 interface hosted on the ABAP system and a UI5 interface hosted on the cloud platform. The data model used for this proof of concept was the SAP Enterprise Procurement Model (EPM).

Key Concepts: ABAP, Netweaver Gateway, Java, JPA, Olingo, SAP UI5, WebSocket

Graphical Development Environment

Type: Personal

Period: 2015

Description: An application which can be used to write imperative Java code by dragging and dropping functional blocks. The generated code can also be displayed inside the application, compiled and run. The front-end is done in HTML5 and the back-end is built in Java (it consists of an embedded HTTP server).

Key Concepts: Java, HTML5, SAP UI5, JavaScript, FabricJS

Job Registry

Type: Personal

Period: 2014

Description: This project was built in my spare time for a relative of mine which is a land surveyor. Using it, one can keep track of all jobs and court terms for judicial expertise jobs. It offers a calendar for seeing court dates and automatically reads data from the Ministry of Justice Web API and the National Agency for Cadaster and Land Registration website to update the data accordingly.

Key Concepts: MySQL, PHP, HTML, JavaScript