

Serban Petrescu

Occupation: Computer Engineer
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Education



msg-systems Romania

Oct 1, 2013 - Jan 15, 2014

Technical 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

Mar 1, 2017 - present

Promoted to Senior IT Consultant.

Mostly full time involvement. Started getting more involved in mentoring, coaching and technical leadership.



msg-systems Romania

Feb 1, 2016 - Mar 1, 2017

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

Databases

MySQL	Advanced
SAP HANA	Advanced
H2	Intermediate
Apache Derby	Basic
PostgreSQL	Basic

Technologies

SAP HANA XSC	Advanced
SAP NetWeaver AS ABAP	Advanced
SAP UI5	Advanced
Babel	Intermediate
Grunt	Intermediate
Java EE	Intermediate
NodeJS	Intermediate
RESTful APIs	Intermediate
SAP CDS (ABAP & HANA)	Intermediate
SAP Fiori	Intermediate
SAP Gateway	Intermediate
SAP HANA PAL	Intermediate
Android	Basic
Angular	Basic
React	Basic
Spring	Basic

Natural Languages

Romanian	Mother Tongue
English	Advanced
German	Basic

Projects

msg.CandidateManagement

Type: Work-related

Period: Current

Description: An internal project for managing our job candidates (especially the students). The project is being built using Spring Boot and a MySQL database, with React and Redux on the front-end. My role is that of a coordinator and middle-man between the development team and the stakeholders.

Key Concepts: Java, Spring, MySQL, React, Redux

Insurance as a service

Type: Work-related

Period: Current

Description: A continuation of the "Next Generation Underwriting" project, but focused more towards cloud enablement. The project consists of several smaller prototypes or showcases that aim to be deployed on a cloud platform (e.g. AWS). I had mostly development-related tasks related to building our MEAN-stack-based solution.

Key Concepts: NodeJS, Express, MongoDB, Mongoose, Angular, TypeScript

Next Generation Underwriting

Type: Work-related

Period: 2016 - 2017

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

Small Business Work Organizer

Type: Personal

Period: Current

Description: A Java standalone application, with an embedded web server (servlet container) and embedded database. The application aims to help small business to store, manage and use their business data. I have built this project as an exercise in implementing various mechanisms from scratch (like user authentication, session management, scheduling, etc.) to enhance my skills and understanding of the respective concepts.

Key Concepts: Java, JPA, Olingo, Jetty Web Server, PicoContainer, H2 Database, SAP UI5, JavaScript

UI5 Authorization

Type: Personal

Period: 2017

Description: Lightweight open-source UI5 library which enables developers to build user interfaces which adapt at runtime to user roles. The main goal of this library is to decouple the responsibilities of regular UI5 applications: role-based adaptation should be done declaratively and centrally for each app.

Key Concepts: SAP UI5, JavaScript

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
