

Serban Petrescu

Occupation: Lead IT Consultant @ msg, Co-Founder @ KickIT

Date of Birth: Sep 7, 1993

Location: Cluj-Napoca, Romania

Email: Serban.Petrescu@outlook.com

Telephone: +40 744 865 132

Portfolio: <https://serban-petrescu.github.io/>



Education



Babeş-Bolyai University

Oct 1, 2017 - present

Software Engineering master degree at the faculty of Mathematics and Informatics.



Technical University of Cluj-Napoca

Oct 1, 2012 - Jul 1, 2016

Bachelor degree at the faculty of Computer Science and Information Technology.
The courses at TU-CN covered both software and hardware advanced concepts.

Work Experience



Lead IT Consultant @ msg-systems

Mar 1, 2019 - present

I have a broad range of responsibilities: software architecture, technical leadership, mentoring, hosting internal trainings and evaluating colleagues.



Co-Founder @ KickIT

Oct 1, 2018 - present

Founded a start-up together with a close friend. I mostly deal with the architecture, development and operations of our application.



Teaching Assistant @ T.U. Cluj-Napoca

Feb 1, 2019 - present

Six hours per week hosting the Software Design laboratory for 3rd year Computer Science students.



Senior IT Consultant @ msg-systems

Mar 1, 2017 - Mar 1, 2019

Full time involvement. I started getting more involved in mentoring and technical leadership.



IT Consultant @ msg-systems

Feb 1, 2016 - Mar 1, 2017

Mostly full time involvement, with small exceptions during my bachelor degree thesis realization.



Associate IT Consultant @ msg-systems

Aug 4, 2014 - Feb 1, 2016

Part time (6h per day) during the academic year and full time during the summers.

Projects

DIPKO

Type: Work-related

Period: current

Description: Architect and lead developer for building a cloud-based, multi-tenant SaaS platform for managing municipal services. We started implementing it as a modular monolith, with the target of splitting it up into micro-services later on if needed.

Key Concepts: NodeJS, Angular, PostgreSQL, Amazon Web Services, Docker

Guided Selling Advisor

Type: Work-related

Period: 2017 - 2018

Description: Architect and lead developer for building a suite of reusable microservices supporting business applications for a market-leading manufacturing company. The microservices were developed using Spring Boot and deployed on the SAP Cloud Platform - Cloud Foundry. This project served as a blueprint for the customer for all further cloud-based projects. During the course of the project, I've had a major role in guiding the customer through the various architectural decisions, whilst also implementing the most technically challenging components.

Key Concepts: Java, Spring, SAP HANA, JPA, SAP Cloud Platform

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

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

SMTA (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

KickIT

Type: Personal

Period: Current

Description: Co-founder for a Romanian startup: "KickIT", targeting the amateur soccer scene. I was responsible for architecture, design, implementation and operations for this cloud-native solution, consisting of a Spring Boot backend, several lambdas and a React PWA deployed on Amazon Web Services.

Key Concepts: Java, Spring, PostgreSQL, React

Small Business Work Organizer

Type: Personal

Period: 2016 - 2018

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 JSX Renderer

Type: Personal

Period: 2017

Description: Babel plugin for transpiling inline JSX into UI5 Render Manager calls. It enables very easy custom control creation.

Key Concepts: SAP UI5, JavaScript, JSX, BabelJS
