



Sels
IT Solutions

Vincent Sels

Curriculum Vitae

PERSONAL INFORMATION

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WORK EXPERIENCE

2013 - NOW: SELS IT SOLUTIONS - SELF EMPLOYED

2017-NOW: WEB TECH LEAD AT YPTO

After finishing the below projects successfully, Ypto entrusted me with the task of leading the team of the nmbs.be / sncb.be website, finishing a large rewrite of the backend, using a series of **microservices** connected with **NServiceBus**, and managing payments with **Ingenico/Ogone**.

I was involved in setting up continuous integration and deployment using Atlassian **Jira** and **Bitbucket**, Jenkins, and Inedo **ProGet** and **BuildMaster**.

Finally, I developed a public API allowing external B2B partners to purchase NMBS/SNCB products.

2016: FULL-STACK SOFTWARE ENGINEER AND TECH LEAD AT YPTO

Creation of both a common RESTful **ASP.NET Web API** back-end, along with a new line of multiple responsive/mobile **single page web applications** used by hundreds of employees of the Belgian railway company, NMBS/SNCB.

The single page applications receive real-time data through **SignalR** and responsively render it using Facebook's **React**, rendering both plain HTML as well as SVG. For the build process, **Gulp** and **Browserify** are used. Dependencies are managed with **NPM**.

The backend receives its data from an **ESB**. It uses the **Mediator** pattern, **IOC**, **unit tests**,...

Applications include a per-platform view of which trains are arriving and departing, and a space-time graph of which tracks trains are occupying in a station.

For these projects, I lead a **Scrum** team of up to 5, working closely together with the company's .NET architect, setting up architecture, solutions and workflows for both the front- and backend. I performed code reviews, reported to the Project Manager, provided documentation, and still did a large part of both the front- and backend development.

2015: FULL-STACK SOFTWARE ENGINEER AT INFRABEL

Front-end development in **AngularJS** with the **open source** GNaP framework (www.gnap.io) and a RESTful **ASP.NET Web API** service as the back-end. Data is retrieved from an Oracle database using **Entity Framework** as ORM.

Our team created an application to visualize network connectivity data geographically using **Google Maps API** and as charts using **D3**. We also built the 'probes' to be installed on the trains: small **Linux** machines running a **Node.js** application to gather the connectivity and GPS data.

SUMMER 2015: CONSULTANCY & COACHING AT INFOMAT

Infomat rolled out a web application on top of their Progress backend. Relevant data is loaded in a **Sql Server** database, exposed through an **ASP.NET Web API** and consumed by an **AngularJS** web application, also running as a mobile '**offline-first**' application on **Android and IOS** (using **Cordova**).

My job was **coaching** the small team of developers, performing **code analysis**, **refactoring**, rewriting the bulk of the code that was written over the past 9 months, and introducing the 'offline mode'.

2014: SOFTWARE ENGINEER AT PFIZER

As a consequence of the transition of Pfizer Puurs towards **SAP**, I rewrote two internal applications in **ASP.NET MVC**, **Bootstrap** and **jQuery**: an application to create and manage packaging artwork, and an application to both visualize and simulate market stock projections using SAP data from Puurs stock, production orders, and transportation times.

Aside from that, I was involved in a couple of **data migration projects** and updated some legacy applications to use the new databases.

Everything at Pfizer followed **GMP**.

After completion, the projects were transferred to **off-shore** development teams.

2013: SECONDARY ACTIVITY AND SIDE PROJECTS

I started learning web development on my own, mainly specializing in **ASP.NET MVC** hosted on **Azure** for the back-end, and **Bootstrap** and **jQuery** for the front-end. I created a couple of projects using these technologies, like <http://www.liselottesels.com/turkishfolkmusic>, which is a small CMS.

I also did a couple of **PHP**/jQuery projects. Most notably <http://fotogiesels.be>, a gallery website, and <https://github.com/vincentse/ProjectManagement>, a project management plugin for MantisBT.

2006 - 2013: CERTIA

2013: OVERHAUL OF DOCUMENT GENERATION AND DISTRIBUTION

The outgoing document flow was completely revised. For this project a partnership was formed with BTR Services whose **LetterGen** suite was adopted to create the templates and generate the documents, and with **Group Joos** to leverage the printing and distributing of most documents. The role of Certia was again to coordinate the project, to completely re-write the document broker, to create modules for individual and batch document requests (allowing the preparation of 50 000 documents per hour, making use of the latest .NET technologies such as **parallel programming**).

At the same time that we were building this solution, our biggest customer Acerta also started working on a new internal document generation and distribution system, which our broker needed to interface with. It was my responsibility to **align the release** of these two enormous projects.

Additional technologies used in this project were communication over **Active MQ** and **Websphere MQ**.

2011: TRANSITION INTO PAPERLESS OFFICE

One of our biggest customers switched to a complete paperless office. This project was realized with 3 partners: **Ricoh** for supplying the scanning hardware and **Kofax** software, **Unified Post** for archiving the documents securely and lastly Input For You for scanning the paper backlog offshore. My role in this project was the coordination between these three parties, while at the same time making the necessary changes to our client/server application, executing a large data migration including importing an old electronic archive into the new one, and putting an additional (external) programmer to work. The entire project was deployed in 3 months' time, even though it was originally planned as a 200-manday project for Certia alone.

Technical challenges involved several interfaces with the partners' software: creating a **fully documented WCF service** and service agent to deliver metadata to Ricoh's scanning software and setting up **SFTP** communication to send and receive xml messages to UP.

2010: TRANSITION INTO SEPA

As one of the first companies in Belgium, we prepared our customers' application for the upcoming SEPA (Single European Payment Area) changes. Interesting aspects of this project were the **pioneering research**, working together with other sectors (**banking** and **government**) and setting up a **test plan** to ensure 100% correct payment files (Isabel 6). Projects involving millions of euros to tens of thousands of beneficiaries leave no room for error.

GENERAL TASKS

Each of these projects were built from the ground up involving, among other tasks:

- Gathering **requirements** from end-users
- Working out possible alternatives, each with high-level **estimations**
- Writing the **functional analysis** documents, including use case scenarios
- Working out the **technical architecture** and relational **database model**
- **Coordinating** the project with several partners, the customer, developers and testers
- Doing large parts of the **development**
- **Leading** a **team** of up to 2 additional programmers

I'm proud of always having delivered all projects on time and well within budget.

All projects at Certia were built in **.NET C#** against an **Oracle** database and **WCF** as communication layer between clients and server. The applications are hosted either on smart clients or **Citrix** clients.

MANAGEMENT EXPERIENCE

As **support manager**, I was entrusted with the task of streamlining the communication between our customers and our company. This involved setting up a completely new issue tracking system in **Mantis** and contributing to the open source project by writing a customizable project management plugin.

I was allowed to redesign and document the **release process**, both organizationally as well as technically (automatic generation and execution of Oracle scripts). Human errors during releases and

installations were virtually eliminated completely. I also introduced professional source code versioning practices to the company (using **SVN**), with integration in the issues tracker.

I was put in charge of re-evaluating the **application lifecycle process**.

EDUCATION & DIPLOMA'S

2002 - 2005: Graduate Applied Computer Science: Hogeschool Gent, department bedrijfskunde BBME

2005 - 2006: Teacher school: Mercator PCVO

SKILLS SUMMARY

DEVELOPMENT

SOFTWARE SOLUTIONS

Single-page apps (Angular, React)
Web API's (ASP.NET Web API, Node.js)
MVC Web apps (ASP.NET MVC)
Windows apps (C# .NET)
Static websites (HTML5, Bootstrap)

.NET-SPECIFIC

ASP.NET Framework
OWIN
Entity Framework
Windows Azure
WCF
Winforms, WPF (basic)

JAVASCRIPT-SPECIFIC

ES6+
Typescript
NPM, Bower
Gulp, Grunt
Browserify, Webpack
Node, Express
Yeoman (basic)
Cordova (basic)

DATABASES

Oracle, PL/SQL, tuning
SqlServer
MongoDB (basic)

TOOLS / IDE'S

Visual Studio
Sublime Text
PL/SQL Developer, Toad
Enterprise Architect
Photoshop
Office suite
MS Project
Pentaho (basic)
Jenkins, BuildMaster

SOURCE CONTROL

Git, Github, Bitbucket
Svn

MANAGEMENT

MANAGEMENT EXPERIENCE

Project & change management
Service support management
Release management
Tech lead, team lead

METHODOLOGY

Scrum / Agile
ITIL

ANALYSIS

Requirements
Functional
Architectural
Technical

PERSONAL

Traits: perfectionism, efficiency, perseverance, professionalism, discretion

MBTI profile: INTJ (Introverted, Intuitive, Thinking, Judging)