

Architect

Personal

First name: Franky
 Last name: Vertriest
 Date of birth: 04/06/1986
 Gender: Male
 Place of residence: Wakken (Dentergem, West-Flanders)
 Nationality: Belgian
 Experience: 13 years
 Driver license: B
 Company: BitBox (BE 0649.800.228, bitbox.be)

Competences

Technical (short): Java 21
 Test Driven Development
 Clean Code
 Domain Driven Design
 Web services (SOAP/REST/GraphQL), Micro-Services
 Hibernate/JPA
 Maven/Gradle
 Cloud (AWS/Azure)
 JavaScript/jQuery/AngularJS/Vue.js

 Social: Team player
 Analytical mindset
 Strong focus of results
 Pragmatic

Languages

Dutch: Native
 English: Fluent
 French: Decent
 German: Basic

Technical Competences

Operating Systems:	Unix/Windows Ubuntu as default OS
Application servers:	JBoss, OC4J, Tomcat, Jetty, Docker, Kubernetes, ...
Tools:	Scripting, Matlab, CVS, Maven, Gradle, Eclipse, Drupal, Android SDK, Hibernate, Webservices (SOAP/REST/GraphQL), Apache Axis2, JAX-WS, IntelliJ, SVN, GIT, Spring, SpringBoot, Apache Camel, ActiveMQ, JMS, RabbitMQ, Grafana, Redis, TwistLock, Kafka, Liquibase,...
Design:	UML, Domain Driven Design, MicroServices, C4-model, Structurizr, Draw.io, Gliffy, ...
Programming:	Java, Cobol, GoLang, C, C++, CUDA, MicroC, HTML, CSS, JavaScript, CGI, PHP, jQuery, Flex, ActionScript, Angular JS, Vue.js, Cypress, Playwright
Methodology:	Agile software Development : Scrum, ScrumBan, Kanban, Lean Waterfall Test Driven Development Clean Code
Functional knowledge:	Public services, Social Security, SEPA, DEBITS, Publishing Systems, GTFS, Open Data, NIS2, GDPR,...

Professional experience

Partena

Period: July 2023 – now

Job-title: Enterprise Architect

Technology: DDD, Kafka, Java 21

As an enterprise architect, my role is to assess clients' current structures, systems, processes, and technology infrastructures, and modernize them to meet contemporary standards. In practice, this involves:

- **Technology modernization:** Migrating legacy technologies such as COBOL, VB6, JDK8, and JSF to modern versions like JDK21 and Angular.
- **Domain-driven design:** Guiding design of functional domains based on business-driven input.
- **Authentication and identity management:** Implementing Single Sign-On (SSO) with Identity Providers such as Azure B2C and PingOne.
- **Authorization framework:** Developing a role-based, hierarchical Customer Identity and Access Management (CIAM) component.
- **Cloud adoption:** Transitioning to public cloud platforms like Azure.

Process improvements:

The following process changes were implemented to support the new architecture:

- Empowering three development teams to adopt the new architectural approach.
- Transitioning from traditional waterfall methodologies to Agile practices (Scrum and Kanban).
- Introducing DevSecOps principles, with a focus on containerization and Infrastructure as Code (IaC).
- Establishing quality gates for new development, supported by strict principles to ensure resilient software, including static code analysis, vulnerability scanning, continuous integration and deployment.

Key challenges and goals:

The ecosystem at Partena Group is extensive, encompassing multiple brands such as Partena, Parentia, Easypay, Staffable, and HorecaFocus. The primary challenge is maintaining the unique identity of each brand while aligning the underlying infrastructure and technology stack across the organization.

I collaborate closely with stakeholders, including business leaders, IT teams, and project managers, to understand their objectives and identify areas for improvement. My work is supported by a skilled architecture circle comprising two solution architects and one infrastructure architect.

Flemish government - WSE

Period: Mai 2019 – April 2023

Job-title: Technical Lead – Team Lead

Technology: Java 17, DDD, Micro-Services, Vue.js, GraphQL, AWS, Cypress, Kanban, Grafana...

The project involved the creation of a brand-new portal dedicated to Flemish citizens and enterprises, enabling them to apply for social funds. To accomplish this, we assembled a skilled team consisting of 2 backend developers, 2 frontend developers, 1 automatic test engineer, 2 functional analysts, 1 product owner, and myself as the team lead/tech lead. One of the major challenges we faced was ensuring the support for multiple businesses such as ESF (European Social Funds) and OSE (Ondersteuning Sociale Economie). After aligning the user requirements and mapping out a development timeline spanning 18 months, we successfully launched the portal on 01/01/2021.

In my role as team lead/tech lead, I am responsible for guiding and supporting the team members to help them reach their full potential. Additionally, I maintain regular communication with the business stakeholders to provide non-functional support. On enterprise level I was the lead or initiator of the Java 11-migration, Java 17-migration, Vulnerability squashing initiative, Structurizr-tool, mailbox testing and User data collection initiative.

Furthermore, every week, the technical leads of WSE gather to discuss and collaborate on enterprise-wide architecture matters.

Flemish government - AIV

Period: September 2018 – Mai 2019

Job-title: PM – Technical Lead

Technology: Java 11, DDD, Micro-Services, Vue.js, Atlassian, AWS, Azure, SOAP, ...

When I joined the 'Mijn BurgerProfiel' project, it was just two months away from its release to the general public. During the final stages leading up to the go-live, our primary focus was on completing all functionalities, conducting monitoring activities, performing penetration testing, and ensuring compliance with GDPR-regulations. Following a successful release, our attention shifted to maintenance mode. Our key objectives were to optimize AWS costs, address any existing technical debt, migrate to SpringBoot 2, and transition from Java 8 to Java 11.

SFPD (Federal Pension Services)

Period: September 2017 – September 2018

Job-title: Java Coach / Developer

Technology: Java 8, Java EE, Vaadin, SOAP, Groovy, ...

At the SFPD I coached and supported developers, mainly junior-developers:

- Pairing with developers to help them solve tickets
- TDD exercises, kata's
- Organizing reading groups for books like Effective Java, Clean Code, ...

If I have time left, I help development in the core application, mainly in the communication and identification domain. The communication domain focuses on sending letters, mails, SMS, ... to the pensioners. The identification domain manages the personal data of millions (pensioners, adults with work experience, ...) and communicates with other institutions like the KSZ/BCSS.

De Persgroep Publishing

Period: Juli 2015 – August 2017

Job-title: Scrum-Master

After a year with De Persgroep I became the Scrum Master of one team: team Fortress. This team was the backbone of all Print Content inside De Persgroep Publishing: it included all the management of editorial tools.

In Mai 2016 Team Fortress became a squad with a dedicated mission and metrics. The mission was to implement a huge editorial system for the newspaper Algemeen Dagblad and 7 other regional newspapers in the Netherlands. This was the biggest roll-out for the company ever and involved more than 1200 reporters and editors. This project was successfully completed with a month to spare. Focus as team lead:

- Test Driven Development: ensure that every developer has the responsibility and the professionalism to ensure that his code is fully tested and operational
- Clean code: the code is every easy to understand and change
- Domain Driven Design: Business en development working together and speaking the same language
- Agile working in a team (Scrum, ScrumBan, Kanban)
- Introduction of Java 8
- Move to the cloud (AWS)

Extra tasks:

- Team management: providing a productive and enjoyable atmosphere
- Enforcing Scrum processes: facilitate retrospectives, stand-ups, estimations, ...
- Planning, discussion and estimation of tasks with the business
- Responsible for every release and deploy
- Reporting to the management
- Aiding and coaching developers and QA

De Persgroep Publishing

Period: Juli 2014 – June 2015

Job title: Analyst-Developer

Technology: Java, Spring, Hibernate, Oracle, MongoDB, REST Webservices, Flex, ActionScript, Angular JS, jQuery, HTML, CSS, JavaScript

As a member of a maintenance team, I guaranteed the correct operation of all editorial software. This software covers a lot of projects that make sure that what a journalist writes, will be printed correctly on the printing presses, appear on the website or one of the mobile apps. There are also a lot of extra concerns in publishing the articles: advertisement systems, payment of the journalists, planning of the newspaper, organization in the newsrooms, statistics, ...

The software exists already long, but is often modified and extended with new publications, requirements or technologies. It's essential that the editorial flow runs every day perfectly since the print presses need to start printing before a certain deadline. Missing that deadline means that millions of people will not receive a newspaper in their mailbox...

The team worked as a cross-functional entity. This means that the team was responsible for the technical analysis, design, front-end development, back-end development, testing and finally deploying. This experience has thought me a lot about the values of agile working and the best software principles.

EASYPAY

Period: October 2011 – June 2014

Job title: Developer

Technology: Java, CGI, HTML, CSS, JavaScript, jQuery (back office), JSF, JSP, Hibernate, Apache Axis2 web services, JAX-WS, Pervasive, MYSQL, Cobol

Development:

- Development was implemented following a technical analysis
- Front-end development and new features were written in Java
- Web services (SOAP) used in AXIS2 & JAX-WS.
- Back-end & business logic was mainly done in Cobol and Pervasive DB

Testing:

- Testing was extremely important because the business and the government left no margin of error
- The interpretation and understanding of testing results were some of the core tasks

Projects:

- SEPA: A new debit type of SEPA forms (B2B) was demanded by the finance industry and government. This implied that the payment module of the system had to be rewritten both back-end as front-end.
- Automation project: The core goal of this project was the automation of the interfaces between the government (RSVZ) and the social insurance funds (Entraide). The paper trail needed to be replaced by digital communication. The interfaces between the several participants were being build using web services (SOAP).
- Law changes: Changes in the law that had an impact on the social security, calculations on the contributions, pension, ... required software changes (back-end & front-end). The changes needed to pass through the complete workflow and had to run on all systems in production when the change in law took effect: this means very strict deadlines
- Management of enterprise supervisor (Eunomia): maintaining the existent software, but also adding new features. For this client there was also a need to act quickly on law changes or implement strategies to keep this company competitive.