

# Curriculum Vitae

Wim Vander Schelden

October 3, 2023

## 1 Personal details

**Name:** Wim Vander Schelden

**Residence:** Belgium

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## 2 Professional experience

**August 2021 - present: Form3** Form3 makes a payment processing middleware that unifies various payment schemes and networks into a single API. This allows our customers (mostly banks and other financial institutions) to simplify their internal software services and reduce their development time and costs.

I've participated in designing and developing the integration with two new payment systems at Form3. This involves both extending existing microservices and creating new ones to be deployed into the Form3 service mesh. Software development happens mostly in Go. Inter-service communication happens through a mix of HTTP and message queues (NATS, SQS). Deployment is a mix of Terraform and YAML, with new services being running on Kubernetes and legacy services running on Amazon ECS.

**Mar 2018 - July 2021: Western Digital Corporation / Quantum Inc** Initially worked on an S3-compatible object store in C++, but after a few months I was transferred to work on a new networked file system implementation running on the same backend.

The object store was implemented in C++, while the file system was a new project written in Go. Tests were written in Python. This project also involved some Java development for the management layer and gRPC for both internal and external APIs.

**Aug 2013 - Nov 2018: Cisco System Belgium** (through Sioux Embedded Systems)

Worked on the design and development of new features on a video content management system as well as maintaining existing code and features and testing. Both the development environment and target system ran Linux, development was mostly in C/C++ while testing was done in Python.

Also worked on platform development and integration, using Python, C++, Linux and Red Hat / CentOS software like systemd, firewalld, abrt, RPM packaging, ...

**Feb 2012 - Jul 2013: Philips Consumer Lifestyle** (through Verotech)

Worked on the development of the software stack for Philips' Linux-based SmartTV product line. As part of the team responsible for the speed and reliability of the whole system, I maintained the logging system, and worked on the instrumentation and analysis of post-mortem crash reports.

TV software was written in C, while the post-mortem crash analysis was automated in a Ruby-on-Rails application.

**Aug 2010 - Dec 2011: Universiteit Gent** As a research assistant, I worked on two projects. One involving virtualization on ARM processors, while the second worked on compiler optimizations for an experimental processor architecture. Development work was in C/C++, and involved working on Qemu and LLVM.

### 3 Training and education

**Nov 2022: System Programing for Linux Containers** Man7.org

**Sep 2017: GPU Programming with OpenCL** Vrije Universiteit Brussel

**Mar 2017: Linux Kernel Development** Linux.be

**Oct 2016: Cybersecurity training** Proximus

**Feb 2016: C++11 en C++14** In-house training, Sioux

**Jun 2015: Yocto build system workshop** In-house training Sioux, based on Free Electrons course.

**Oct 2014: Safer C for Embedded Systems** Based on the book "Safer C" by Randy Marques

**Sept 2014: Certified Scrum Master** Scrum Alliance

**2008-2010: Master of Engineering: Computer Science, Software Engineering** Universiteit Gent

**2005-2008: Bachelor Informatica** Universiteit Gent

### 4 Languages

- I am fluent in English and Dutch.

### 5 Miscellaneous

- Finalist in the Battlesnake 2022 Winter Championship
- Participant the Vlaamse Programeerwedstrijd (programming contest) 2009-2019
- Participated in the WELEK robot competition at UGent in 2011 and 2013
- Attended FOSDEM most years since 2005