

Curriculum Vitae

Jean-Marc Malmedy

1. General

Personal information:

- Name: Jean-Marc MALMEDY
- Birthdate: 1st of September 1971
- Nationality: Belgian
- Residence: Leuven, Belgium
- Profession: Software architect, analyst-programmer and team leader freelance MITCO bvba
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I have an experience of 24 years in IT. I started as analyst-developer and I am now software architect and technical leader for several years. I am specialized in the architecture of applications based on Oracle databases and in the development of PL/SQL application layers or batch processes and in the development of applications and utilities in Python.

I also have several years experience in managing the release process of applications (development, versioning, deployment, ...). I'm especially concerned about the quality of the developments, the ability to test them and to reuse them.

Therefore, I have developed a significant experience with tools and applications commonly used to organize, develop and release software like Python, JIRA, Git/SVN, shell scripts,

As a technical team leader or Scrum master, I also put in place an Agile/Scrum organization using common project management tools like JIRA, Trello, ...

2. Education

- 1996 : dutch language as night school
[Enseignement de Promotion et de Formation Continue](#) (EPFC)
Brussels, Belgium
- **1995** : Graduate in computer science
[Institut d'Enseignement Supérieur Saint-Laurent](#)
Liège, Belgium
- 1990 : high school
[Collège Episcopal du Sartay](#)
Chaufontaine, Belgium

3. Main professional experiences

3.1. Software architect at the European Commission

- Period: from May 2016 until now (on going)
- Function: Oracle database architect and technical team leader
- Customer: European Commission (for Everis) / freelance
- Technologies: Oracle, SQL, PL/SQL, Python, Git, GitFlow, SVN, UML, Liquibase
- Language: English

For the main project, I am responsible for the physical modeling of the database schemas based on the input from the business analysts. The physical databases and scripts are generated starting from this model.

I also developed and maintain a master data management tool made in Python. The purpose of this application is the management of data sets stored in JSON files that can be automatically deployed (upgrade, downgrade or removal) on several database environments. The database schemas and

JSON files are parsed and analysed just in time by the Python application in order to produce the needed SQL scripts.

I also set up and administer some Git repository in order to version the database models, scripts, Python source code, data sets...

For a second project, I am a database architect responsible for the quality of the PL/SQL developments. I also act as technical team leader in an Agile (Scrum) environment.

Finally, I am also responsible for the bundling of database scripts with the DevOps and DBA teams. Therefore I developed and maintain some Python utilities in order to automate and streamline the deployment process.

3.2. Software architect, analyst-programmer and technical team leader at Electrabel

- Period: from 2001 until May 2016 (15 years)
- Function: software architect, analyst-programmer and technical team leader
- Customer: Electrabel, subsidiary companies and partners (Engie/Electrabel, Eandis and ORES) for Ariane II, Sogeti and Trasys / freelance
- Technologies: Oracle, SQL, PL/SQL, PowerBuilder, Python, UML, SVN, TFS
- Language: French and Dutch

This was a single and long mission that was divided into several periods due to the evolution of Electrabel and my function on the different projects I worked on.

3.2.1. Software architect, analyst-programmer and technical team leader at Ores

- Period: from 2007 until May 2016
- Function: software architect, analyst-programmer and technical team leader
- Customer: ORES (previously Electrabel Netmanagement Wallonie) for Sogeti and Trasys / freelance
- Technologies: Oracle, SQL, PL/SQL, Python, PowerBuilder, UML, Java, SVN, TFS, FME (ETL), XML
- Language: French

My main functions on this project were software architect and technical team leader. I was responsible for the architecture of the database schemas, the PL/SQL developments, the PowerBuilder developments and the ETL processes developed in FME. As technical leader I reviewed and approved the code submitted by the developers as well as the UML technical analysis.

I was also in charge of the versioning of the application scripts and source codes in TFS and SVN repositories and for the bundling of releases (scripts and executables). Therefore I developed some Python applications and utilities in order to automate and streamline the deployment process.

I also acted as Scrum Master in order to organize the day to day work of the developers.

As a second project, I also analysed and developed a back office application in JAVA for the electrical and gas network drawers office. This application implemented the workflow of the technical drawing process starting from the creation, modification, validation, ... This back office JAVA application executed requests sent by a PowerBuilder front end application module that I also developed.

3.2.2. Analyst-programmer at Eandis

- Period: from 2005 until 2007
- Function: analyst-programmer
- Customer: Eandis (previously Electrabel Netmanagement Vlaanderen) for Sogeti / freelance
- Technologies: Oracle, SQL, PL/SQL, PowerBuilder, Java, UML
- Language: Dutch

Electrabel being split into several entities, my function was to customize the application developed for the whole group in the previous period.

I had to analyse and develop the application according to the process defined by the new entity. I was also responsible for the bundling and the deployment of the releases.

3.2.3. Analyst-programmer at Electrabel

- Period: from 2001 until 2005
- Function: analyst-programmer
- Customer: Electrabel (now Engie) for Ariane II and Sogeti / freelance
- Technologies: Oracle, SQL, PL/SQL, PowerBuilder, UML
- Language: French and Dutch

As an analyst-programmer, I was part of a team responsible for the development of a new application that managed the breakdown process from Electrabel, starting from registration of the breakdown to the closing of the file.

I also participated in the development and maintenance of some linked projects and applications.

3.3. Analyst-programmer

- Period: from June 1999 until December 2000
- Function: analyst-programmer
- Customer: OLAF for Atos / starting as employee and then freelance
- Technologies: PowerBuilder, Oracle, SQL, PL/SQL
- Languages: English and French

I was responsible for the development and maintenance of a PowerBuilder application managing the investigation cases of OLAF.

3.4. Project manager

- Period: from December 1998 until June 1999
- Function: project manager
- Customer: European Commission for Atos / employee
- Language: French and English

I was responsible for the management of a project in maintenance at the European Commission. I managed the development team and had weekly meetings with the customer.

3.5. OO consultant

- Period: from November 1997 until November 1998
- Function: object oriented design adviser
- Customer: European Commission for Atos / employee
- Technologies: UML, PowerBuilder, SQL
- Language: French and English

I was an adviser for the object oriented architecture of a new suite of PowerBuilder applications. I made the UML design of the general architecture of the applications and developed the foundation classes or framework the future application developments will be based on.

3.6. Analyst-programmer

- Period: from 1996 until 1997
- Function: analyst-programmer
- Customer: FICS Group / employee
- Technologies: UML, PowerBuilder, SQL
- Language: French and English

I was part of a team that developed a new application that managed the bank guarantee system. I was responsible for the technical analysis and development of some of the application modules.

I was also a member of a task force group responsible of the object oriented architecture of the future PowerBuilder applications.

4. Secondary professional experiences

4.1. Development of a reporting system for the bookkeeping package

- Period: from 2014 until now
- Function: full development cycle
- Customer: internal project
- Technologies: Python, SQL, MongoDB, NoSQL
- Language: French

For the bookkeeping package developed internally, I also developed a reporting system based on the requirements from the small business users.

Some data is aggregated by Python modules in a MongoDB database used to produce different kinds of reporting. Python is used for the ETL process and for the building of the reports.

4.2. Development of a bookkeeping package

- Period: 2001 until now (maintenance)
- Function: full development cycle (analysis, design, development, unit testing, testing, maintenance, documentation and deployment)
- Customer: international project
- Technologies: Java, Swing, Interbase, Derby DB, SQL, UML, JUnit
- Language: French

As an internal project, I developed a bookkeeping package intended for small business. The application is still used by some small stores.

I took part in the definition of the requirements and the analysis. Then, I developed the database model and scripts, the application source code and the unit testing scripts.

4.3. Migration of a lawyer software package

- Period: from 1994 until 1995
- Function: analyst-programmer trainee
- Customer: Pyramique
- Technologies: PowerBuilder, SQL
- Language: French

As training during my studies, I was responsible for the migration of a lawyer software package from the C language to PowerBuilder.

5. Languages

- French: mother tongue
- Dutch: very good in talking and writing
- English: good in talking and writing

6. Technical skills

Development languages:

- SQL
- PL/SQL
- Python (2 and 3)
- PowerBuilder
- JAVA (J2SE, J2EE, Swing, ...)
- Shell scripts

Databases:

- Oracle
- Derby DB

- MongoDB
- SQL Server

Operating systems:

- Windows
- Linux

DevOps:

- Git
- GitFlow
- SVN
- TFS
- JIRA
- BitBucket
- Confluence
- Trello

IDE's :

- Eclipse
- PyDev
- SQL Developer
- TOAD
- PyCharm
- GVim
- Visual Studio Code
- NetBeans
- FME

Case tools:

- UML
- SPARX Enterprise Architect
- PowerDesigner
- Rational Rose