

LEAD ENGINEER / FULL STACK DEVELOPER

François-Xavier De Nys



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Born in Brussels on December 26, 1974.

Summary

An experienced developer in WEB and C++ technologies, I have a bachelor's degree in computer science from the Institut Paul Lambin in Brussels (1998).

This is my journey since that date.

In 1998, I was engaged, as a C++ developer at the Université Catholique de Louvain, as part of a research project linking spectrophotometry and industrial supervision.

A few years later, I joined a computer consulting startup called DS Improve. Among other things, I developed an embedded system for Siemens and worked for 3 years on the SNCB passenger information system.

Thanks to my mastery of C++, I obtained, in 2004, a position of head of products MCL-Net and MCL-Bridge of the company MCL-Technologies, subsidiary of the Zetes group. These are the server products of the software suite offered by the company.

In 2007, I accepted an expatriate position at a computer science university in Dakar, Epitech Afrique. For 3 years, I taught C, C++, assembly language, system programming and graphic programming. I also created a new "Networks and Telecommunication" channel, still open to this day.

After this enriching experience, I have started a freelance activity.

In 2010, I have provided my services to European Directory Assistance. I have built for them the database and the interface used by the agents of directory assistance service 1212/1313.

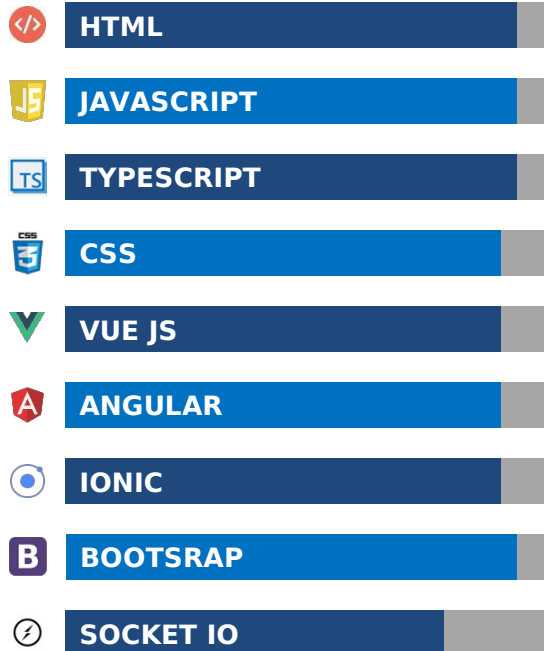
In 2014, I was co-founder and lead developer of the CarAmigo and SereniMax platforms. CarAmigo allows car rental between private individuals. SereniMax secures the sale of used vehicles.

Since November 2020, I am Lead Engineer at CluePoints, a company who develops a solution for pharmaceutical companies to improve their clinical trials.

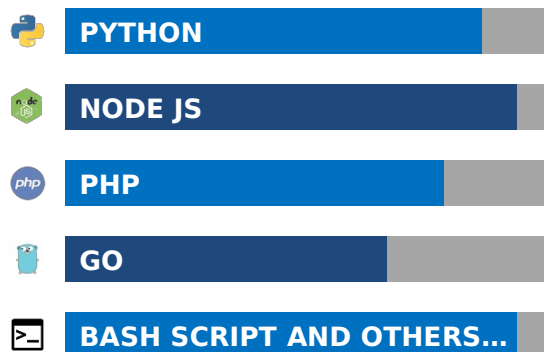
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Technical knowledge

Front-End technologies:



Back-End technologies:



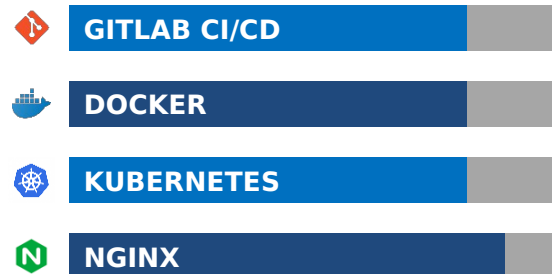
Databases:



Compilers/assembly:



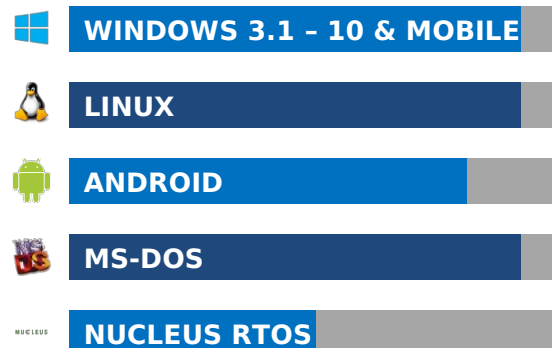
DevOps :



Development environments:



Operating systems:



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Specializations



« WEB platforms »

As a full stack developer, I manage the development of complex web applications from start to finish: CSS, HTML, Javascript, Angular or Vue JS, Node, Go, Python, Php, MySQL, MongoDB, Docker, Gitlab are part of my everyday tools.



« C / C++ »

With over 20 years experience a C/C++ developer, in both Microsoft and Unix environments, I have worked on multiple tasks for companies such as Siemens, Fabricom or Zetes.

I also had the opportunity to teach this language for three years at Sup de Co, a private university in Dakar.



« Software architecture »

I gather the requirements of my clients, analyse them and produce a software architecture that meets their needs.

This consists of a structured solution that meets all technical and operational requirements, while optimising common quality attributes such as performance, security and user experience.

Professional experiences



CluePoints, Louvain-la-Neuve

Nov. 2020 +

Lead Engineer

CluePoints develops software based on a statistical engine in the field of health whose purpose is to determine the quality, accuracy, and integrity of clinical trial data.

I hold the position of 'Lead Engineer' in a team specially dedicated to rapid prototyping. Some of these prototypes led to the signing of the largest contract ever signed by the company.

Technologies: HTML, CSS, JavaScript, Angular, Python, MongoDB, MySQL, GITLab, Docker, K8S

Référence: <https://www.cluepoints.com/>

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Professional experiences (continued)



SereniMax, Brussels

2017 - 2020+

Co-founder / Technical Director / Full Stack Developer

Platform dedicated to securing the sale of used cars, via, among other things, a secure vehicle payment system.

- Analysis, development, and maintenance of the platform.
- Mobile applications
- Back-office management applications.
- Management of electronic payments and associated accounting.

Technologies: HTML, CSS, NuxtJS, NestJS, Node, JWT, MariaDB, GitLab CI, Docker, MangoPay.

Reference: <https://www.serenimax.com/>



Car Amigo, Brussels

2014 - 2019

Co-founder / Technical Director / Full Stack Developer

Car rental platform between individuals.

As co-founder, I have participated in the development of CarAmigo since the genesis of the project. The platform offers more than 2,000 private vehicles for rental and covers 3 countries.

- Development of the platform.
- Back office management applications.
- Management of electronic payments and associated accounting.
- Connections with insurance and road assistance companies

Technologies: HTML, CSS, JavaScript, PHP, JWT, Angular, MariaDB, Ionic, Apache, MangoPay.

Reference: <https://www.caramigo.eu/>



HireRing, Brussels

2018 - 2019

Full stack developer

Recruitment platform putting employers in contact with recruiters.

- Development of the platform.
- Back office management applications.
- Management of electronic payments and associated accounting.

Technologies: HTML, CSS, JavaScript, VueJS, JWT, Go, Dgraph, GitLab CI, Docker, MangoPay.

Reference: <https://www.hirering.eu/>

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Professional experiences (continued)



1313, Brussels

2011 - 2020+

C ++ / DevOps Developer

Belgian national telephone information.

- Construction of the database for 1212/1313 operators.
- Standardization and data enrichment services.
- Web Applications
- Automated form filling service using directory data.

Technologies: C ++, PHP, Python, HTML, CSS, JavaScript, NuxtJs, MySql, Apache, Docker.

Reference: <http://www.le1313.be/>



Sup de Co, Dakar

2007 - 2010

Head of Training

Private University of Dakar having opened an IT sector in partnership with Epitech France. I joined this school during its second year of opening and worked there for 3 years.

- Educational management of the school and definitions of the programs.
- Teacher of C, C ++, assembly, system programming and graphic programming.
- Creation of a "Networks and telecommunications" field.

Technologies: C, C ++, Assembler, Linux, Graphic programming, BSD.

Reference: <http://www.supdeco.sn/Supdeco-Technologie-Qu-est-ce-que>



MCL Technologies, Waterloo

2003 - 2007

Product Manager / C++ Developer

MCL Technologies is an IT software company that provides advanced products for the creation, implementation and maintenance of mobility applications for businesses.

- Responsible for the development of MCL-Net and MCL-Bridge products.
- Implementation of a continuous integration system integrating a hundred target platforms.
- Drivers for mobile terminals.
- Development on real time OS.

Technologies: C ++, Visual Studio, TCP / IP, Continuous integration, Embedded, Nucleus RTOS.

Reference: <http://www.mclv4.mcl-collection.com/>

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Professional experiences (continued)



Fabricom, Bruxelles

2000 - 2003

IT Consultant / C++ Developer

Traveler information system of the Belgian national railway company.

- New version of the interface for station operators.
- Implementation of dockside automatic display logic.
- Interfacing with train arrival and departure detection means.
- Centralized management tool for different station configurations.

Technologies: C, C++, Linux, PostgreSQL, Qt, Qt Designer, Embedded, Proprietary protocols.



Siemens, Bruges

1998 - 2000

IT Consultant / C++ Developer

Embedded part of an industrial supervision system.

- Installation of a wireless communication system between programmable logic controllers and a central server.
- Development of a Linux kernel driver.

Technologies: C, C ++, Linux, Linux kernel driver, Embedded, AS511 and 3964 protocols.

Other experiences

1998 : End of studies internship at the Saint Luc University Hospital in Brussels.

Development of an analysis software using the wavelet method of signals recorded on electroencephalogram.

1998 : Handwriting recognition.

1996 : 3D molecule representation software.

1994 - 1995 Graphic animations programmed in assembly.

Languages

FRENCH

ENGLISH

DUTCH