



**Jerome MILAN**

Software engineer

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French citizen

## Professional Experience

- Since           **Backend software Engineer** at Pelico ([www.pelico.io](http://www.pelico.io))  
03/2025        – Backend development in Kotlin
- 09/2021 -      **Software Engineer** at Norbert Health ([www.norberthealth.com](http://www.norberthealth.com))  
02/2025        – Design and development:  
                – Embedded side on Jetson Nano: legacy & new device features in C++, Python 3, ZMQ, Vue.js  
                (move to inference server, new application logic/features, debugging, etc.)  
                – QA dev toolings: new toolchain to run data playback locally or on CI (Python 3, GitLab, AWS)  
                – Backend: legacy and new AWS Lambdas (Go/Python 3), chatbot POC (Python 3, Langchain)  
                – ETLs and reporting (GitLab CI/CD, MongoDB, BigQuery, AWS)  
                – DevOps:  
                – Legacy and new CI/CD pipelines/workflows (GitLab, Docker, AWS)  
                – Infra admin (AWS, GCP)
- 2019 - 2021     **Head of R&D** at Homa Games ([homagames.com](http://homagames.com))  
                – Data engineering with Python 3 (ETL pipelines), AWS Redshift
- 2015 - 2019     **Head of R&D/Data scientist** at BidMotion ([www.bidmotion.com](http://www.bidmotion.com))  
                – Data mining and machine learning using Apache Spark on EC2 (with Java and Scala) and Python 3
- 2014 - 2015     **R&D developer** at KoDe Software (a company developing an alternative SQL engine)  
                – Authentication, access rights management, task scheduler (C++ mostly, Java)
- 2012 - 2014     **Back-end/R&D developer** at SCM France ([www.leboncoin.fr](http://www.leboncoin.fr))  
                – Back-end: new features and optimisations (C, PostgreSQL, jQuery)  
                – R&D: development of an automated moderation tool (pattern detection, ad hoc rules, inference) in C
- 2005 - 2012     **Software Engineer** in the Cryptology team of Ecole Polytechnique's Computer Science Laboratory (LIX), Palaiseau, France. Interested in integer factorization ([bit.ly/2m1x6k1](http://bit.ly/2m1x6k1)), pairings over elliptic curves ([bit.ly/2u9wv3T](http://bit.ly/2u9wv3T)) and elliptic curve cryptography in ad-hoc networks ([bit.ly/2Nw42hJ](http://bit.ly/2Nw42hJ)).
- 2000 - 2001     **Research Engineer** in the Nuclear Chemistry Group of the State University of New York at Stony Brook, USA ([bit.ly/2KWNgu](http://bit.ly/2KWNgu)). Involved in the elliptic flow studies on the Phenix experiment at the Relativistic Heavy Ion Collider of the Brookhaven National Laboratory.

## Computer Science Education

- 2003 - 2004     **Master's Degree in Mathematics and Computer Science in Cryptology, Security, Coding Theory**  
                Joseph Fourier University, Grenoble, France
- 2002 - 2003     **Master's Degree in Software Engineering and Distributed Systems and Networks**  
                Joseph Fourier University. Grenoble, France
- Main Internships*
- 03-09/2004     **Digital images steganalysis with machine learning**  
                Images and Signals Laboratory, French National Center for Scientific Research (CNRS), France
- 01-09/2003     **Design of a distributed framework for genetic data federation**  
                TIMC Laboratory, Informatics and Applied Mathematics Institute of Grenoble (IMAG), France
- 01-09/2002     **Theoretical study of the entangled states of quantum computing**  
                Leibniz Laboratory, Informatics and Applied Mathematics School of Grenoble (ENSIMAG), France

## Physics Education

1998 - 1999 **Master's Degree in Particle and Nuclear Physics**

Joseph Fourier University, Grenoble, France

1997 - 1998 **Bachelor's Degree in Physics** as part of the Education Abroad Program

University of California at Los Angeles, USA

### *Main Internship*

03-07/1998 **Influence of VIRGO's transfer function on a coalescing binary stars detection algorithm**

Particle Physics Laboratory of Annecy-le-Vieux (LAPP), France

## Technical Proficiencies

Systems GNU/Linux, Unix, macOS

Languages Mainly C/C++, Java, Perl, Python, and  
& Techs also SQL, PHP, Scala, Apache Spark,  
AWS, GCP, etc.

Softwares Magma, PARI/GP, Root, LaTeX

## Miscellaneous

Languages French : mother tongue

English : fluent