## Jerome MILAN
**Software engineer**

https://www.lix.polytechnique.fr/Labo/Jerome.Milan/
https://milanje.github.io

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French citizen

## Professional Experience

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|---|---|
| Since 09/2021 | **Software Engineer** at Norbert Health (`www.norberthealth.com`)<br>– Embedded (C++/Python 3), backend (Go/Python 3), CI/CD (GitLab), infra (AWS, GCP) |
| 2019 - 2021 | **Head of R&D** at Homa Games (`homagames.com`)<br>– Data engineering with Python 3 |
| 2015 - 2019 | **Head of R&D/Data scientist** at BidMotion (`www.bidmotion.com`)<br>– Data mining and machine learning using Apache Spark (with Java and Scala) and Python 3 |
| 2014 - 2015 | **R&D developer** at KoDe Software (a company developing an alternative SQL engine)<br>– Authentication, access rights management, task scheduler (C++ and Java) |
| 2012 - 2014 | **Back-end/R&D developer** at SCM France (`www.leboncoin.fr`)<br>– Back-end: new features and optimisations (C, PostgreSQL, jQuery)<br>– 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/2m1x6kl`), pairings over elliptic curves (`bit.ly/2u9wv3T`) and elliptic curve cryptography in ad-hoc networks (`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/2KWnNgu`). Involved in the elliptic flow studies on the Phenix experiment at the Relativistic Heavy Ion Collider of the Brookhaven National Laboratory. |

## Computer Science Education

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|---|---|
| 2003 - 2004 | **Master's Degree in Mathematics and Computer Science in Cryptology, Security, Coding Theory**<br>Joseph Fourier University, Grenoble, France |
| 2002 - 2003 | **Master's Degree in Software Engineering and Distributed Systems and Networks**<br>Joseph Fourier University, Grenoble, France |

*Main Internships*

| | |
|---|---|
| 03-09/2004 | **Digital images steganalysis with machine learning**<br>Images and Signals Laboratory, French National Center for Scientific Research (CNRS), France |
| 01-09/2003 | **Design of a distributed framework for genetic data federation**<br>TIMC Laboratory, Informatics and Applied Mathematics Institute of Grenoble (IMAG), France |
| 01-09/2002 | **Theoretical study of the entangled states of quantum computing**<br>Leibniz Laboratory, Informatics and Applied Mathematics School of Grenoble (ENSIMAG), France |

## Physics Education

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|---|---|
| 1998 - 1999 | **Master's Degree in Particle and Nuclear Physics**<br>Joseph Fourier University, Grenoble, France |
| 1997 - 1998 | **Bachelor's Degree in Physics** as part of the Education Abroad Program<br>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**<br>Particle Physics Laboratory of Annecy-le-Vieux (LAPP), France |

## Technical Proficiencies

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| Systems | GNU/Linux, Unix, macOS |
| Languages & Techs | Mainly C/C++, Java, Perl, Python, and also SQL, PHP, Scala, Apache Spark, *etc.* |
| Softwares | Magma, PARI/GP, Root, LaTeX |

## Miscellaneous

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| Languages | French : mother tongue |
| | English : fluent |
| | Spanish : working knowledge |