Jerome MILAN
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About me

Jack of all trades, master of none. I moved from subatomic physics to software engineering, to cryptology, to data science. I am interested in all research and development topics that require a strong scientific background and analytical mind.

Professional Experience

Since 2019 **Head of R&D** at Homa Games (homagames.com)
– Data engineering with Python 3

2015 - 2019 **Head of R&D/Data scientist** at BidMotion (www.bidmotion.com)
– 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)
– Authentication, access rights management, task scheduler (C++ and Java)

2012 - 2014 **Back-end/R&D developer** at SCM France (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/2m1x6kl), pairings over elliptic curves (bit.ly/2u9wv3T) and elliptic curve cryptography in ad-hoc network (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

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

Softwares Magma, PARI/GP, Root, LaTeX

Miscellaneous

Languages French : mother tongue
English : fluent (lived two years in the USA)
Spanish : working knowledge