

Work experience

- October 2016 **Backend and Cryptographic Developer, ERCOM a THALES Company, France.**
Present
Developed a C++ cryptographic library, for a secure communications application (double ratchet and signal like algorithm).
Developed Golang microservices and servers (authorization, authentication, administration), for secure mobile communications and fleet devices solutions.
Added monitoring to all server with prometheus/grafana. Improved microservices deployment using docker and kubernetes.
Researched TLS issues and presented ways to improve/fix them.
Taught Golang to other R&D teams of the company.

Internship

- April 2016 **Cryptographic Developer Internship, ERCOM, France.**
September 2016
Developed a unique Golang cryptographic library for a secure collaborative solution applications (desktop, smartphones, browsers). The library was for basic functions, password authenticated key exchange (Spake2+, Sigma0) and Integrated Encryption Scheme (ECIES).
Researched and tested the use of a HSM (Hardware Security Module) for the security module server of the solution.

Education

- 2014–2016 **Master's Degree, Université Paris 7 Diderot (now Université de Paris), France.**
Mathematics, Computer science and Cryptology
2011–2014 **Bachelor's Degree, Université Paris 7 Diderot (now Université de Paris), France.**
Mathematics and Computer science
2008–2011 **High School Diploma, Lycée Jacques Decour, Paris, France.**
Scientific option, speciality mathematics

Technical skills

- Languages **Golang**, Python, Rust, Dart/Flutter, JAVA, C/C++, \LaTeX
Technologies Docker, Git, CI, PostgreSQL, Redis, OpenSSL
Mathematics Cryptology, Algebra, Galois theory, Automata theory

Languages

French *Native*

English *Technical/Proficient*

Interest

- Security (*pentest, hacking*)
Artificial Intelligence (*deep learning, genetic algorithm, nlp, tensorflow*)
Cinema (*directing, editing*)
Music (*piano, orchestral writing*)