

# Youenn Laborde

*Golang developer*

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## 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.  
Checked SSL/TLS issues on our services 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, Dart/Flutter, Rust, JAVA, C/C++,  $\LaTeX$   
Technologies Docker, Git, CI, PostgreSQL, Redis, OpenSSL, RabbitMQ  
Mathematics Cryptology, Algebra, Discrete mathematics, Automata theory

## Languages

French *Native*

English *Technical/Proficient*

## Interest

Cyber Security (*pentest, hacking and crypto challenges*)  
Data Science (*machine learning, genetic algorithm, nlp, tensorflow, numpy*)  
Cinema (*directing, editing*)  
Music (*piano, orchestral writing*)