

EMPLOYEMENT

Software Engineer

Since December 2014

Amazon.com, Inc

Amazon Fulfillment Services at Vancouver, Canada.

Software Engineer, Intern

Fall 2013 (6 months)

ANSSI

ANSSI is the French national agency for security of information systems.

- Development in C++ (with Boost) of a Side Channel Attack library.
- Implementation of several statistical tools and cutting edge attacks (readings of research papers).
- High performance issues: use of OpenMP, Eigen3 (linear algebra) and some insight in OpenCL.

Software Engineer, Freelance

Summer 2011 - Summer 2012

BPMCONCEPT

- Worked with a team to develop a website of instant win gaming. I developed the backend in PHP with Symfony2.
- Migration of the advertising sales house adincent.com to Symfony2.1 with addition of features and improvement of user experience. Implementation of a RESTful API with backward compatibility.

EDUCATION

Atlanta, GA

Spring 2013 - Spring 2014

GEORGIA TECH

M.S in Electrical and Computer Engineering. GPA: 3.87

- ECE Coursework: *Information Theory, Nonlinear Dynamics and Chaos, Security and Quantum Information, Optimal Control*
- CS Coursework: *Software Development Process, User Interface Design & Evaluation, Humanoid Robotics, Health Informatics.*

Paris, France

2010 - 2013

TELECOM SUDPARIS

M.S. in Computer Science. Specialization in computer security. I got an additional certification issued by ANSSI.

Coursework overview: Algorithmics and data structure, Object programming, Secure architectures, Cryptography.

SCHOOL PROJECTS

- **Robot perception with LIDAR:** (in progress) write interface in C++ and use of Point Cloud Library.
- **Distributed emergency erasure system** for NEXTER SYSTEMS: C++ development using OPENSPLICE DDS middleware, Qt framework (GUI), OpenSSL.
- **Homemade rotating laser detection system** in a team: programming of AVR microcontrollers in C.

LANGUAGES AND TECHNOLOGIES

- **Languages:** C/C++, JAVA, Android, PHP (Symfony2), Lua
- **Databases:** MySQL (Doctrine2)
- Familiar with version control system Git and build process manager CMake.

EXTRACURRICULAR ACTIVITIES

- Android programming: several applications available on Google Play. (see paulbernier.fr)
- Member of the robotics club INTech: I dealt with AVR and ARM programming. I also made my own autonomous robot controlled by an Android device via Arduino ADK board. (see paulbernier.fr for videos)

Reference available upon request