

DORIAN BACHELOT



Driver's license



(+33)7 69 91 33 88



dorianb.net



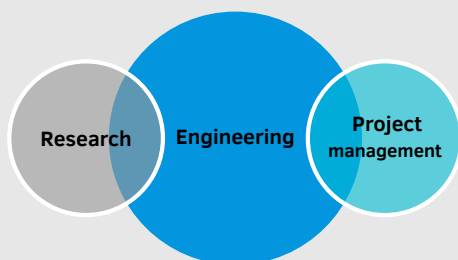
pro@dorianb.net



dorianbdev

Skills

Overview



Details

• Software

Visual studio, Android studio, Wamp, Vim, UE4, Unity, JetBrains solutions, GDB, IDA, Radare2, Ghidra, Alcasar, OpenVAS/GVM, Elastic stack, Splunk, Wazuh, Suricata, Nmap, Metasploit.

• Programming languages

C++, C, Java, Python, CMake, \LaTeX , PHP, Javascript, SQL, R, Bash, Rust.

• Other

Deep learning, OpenGL, Reverse engineering, Git, MariaDB/MySQL, Windows, Linux, Android, Docker, CI/CD pipeline, Django, NodeJS, nftables, syslog.

Languages

English : Full professional proficiency

TOEIC: 905 | DET: 120

Spanish : Limited working proficiency

A2

Hobbies

- ▶ Programming
- ▶ Rugby
- ▶ Electronic
- ▶ Research

I am a hard-working and ambitious Digital Science student in France with a great passion for cybersecurity research. I am currently doing my end-of-studies engineering internship in a Cybersecurity/AI R&D laboratory. I love learning new skills and sharing my knowledge with others.

Education

Engineering Degree

ESIEA, Laval, France

📅 2017 - present

Currently in my 5th year, specializing in cybersecurity.

Baccalaureate

Réaumur, Laval, France

📅 2013 - 2017

Baccalaureate in scientific series with engineering sciences specialty and I.S.N. (Computer science and digital) option. With honors.

Experience

End-of-study engineering internship

Silicom, Rennes, France

📅 March, 2022 - August, 2022

Work on different projects in Silicom's Cybersecurity/AI R&D lab.

Technical internship: OpenSOC

ESIEA, Laval, France

📅 April, 2021 - July, 2021

Project to provide a complete platform for fully automated cyber surveillance of small and medium-sized enterprises.

- » Design of a software (containerization via Docker) and hardware architecture, including system and network probes as well as a SIEM.
- » Development of a fully automated alert processing system.
- » Deployment of the solution in a multi-site company in real conditions (appropriation of the information system, appropriation of the specific constraints, development of specific modules).

Scientific and technical projects

ESIEA, Laval, France

📅 2017 - 2022

- » Development of a network analysis framework for Android applications, which allowed to find a theoretical flaw in the Waze application on the identification of trips and users. Publication and a conference envisaged (in progress).
- » Conception of a 3D positioning tool for IoTs inside a building, using Wifi and Bluetooth and developed from frame parsing in C to a visual result implemented with Qt in C++.
- » Creation of a neural network (Keras / Python) for film identification from a textual description via a Web interface (Backend Django / Frontend VueJS).
- » Conception of a multiplatform and dependency-free C++ library ("from scratch") for the creation of convolutional neural networks.

Research

Research projects

Laval, France

📅 2019 - 2022

Research works in collaboration with a French researcher and an international laboratory on the hardware reverse-engineering theme.

- » Writing of three additional articles on silicon chip hardware reverse engineering.
- » Forking of Degate, a silicon chip reverse engineering software in C++, ported it for a multiplatform use (Windows, Mac and Linux) and made numerous conceptual improvements to the core of the software. It helped to discover several cryptographic vulnerabilities in chips used in the industry.
- » Working with sector actors for chip analysis and community animation.

Research projects - Laboratory (C + V)^o

ESIEA, Laval, France

📅 October 2018 - June 2019

Worked on hardware reverse engineering and cryptography at the Laboratory of Cryptology and Operational Virology (C + V)^o. This research work focused on silicon chip hardware reverse engineering and cryptanalysis.

- » Writing of two articles on silicon chip hardware reverse engineering.
- » Analysis of a cryptographic security flaw in a silicon chip.