

Alexandre Adamski

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EDUCATION

TLS-SEC

MSc in Security and Networks
Advanced courses focused on networks and systems security, dispensed by security experts.
2016-2017 | Toulouse, France

INP-ENSEEIHT

Engineering Degree in C.S.
C.S. and Applied Mathematics,
Software Engineering spec.opt.
2014-2017 | Toulouse, France

COURSEWORK

THIRD YEAR

Cryptography
Software Vulnerabilities
System and Kernel Security
Hardware Security
Reverse Engineering
OSI Security Architecture
Wireless Networks
Secure Network Architecture
Network Security Protocols

SECOND YEAR

Concurrent Computing
Real-Time Computing
Middleware and Databases
Lang. and Compiler Design
Graph Theory, Formal Methods

FIRST YEAR

Imperative, Fonctional,
Object-Oriented Programming
Computers Architecture
Probability and Statistics
Linear Algebra and Optimization

SKILLS

LANGUAGES

10k < LOC
Java • Python • C++
1k < LOC < 10k
HTML • CSS • JavaScript
PHP • SQL • C • Assembly
LOC < 1k
OCaml • VHDL • Matlab

FRAMEWORKS

Flask, Bootstrap, MongoDB,
Solr, Elasticsearch, scikit-learn...

EXPERIENCE

COGNITEEV | Software Engineering Intern

Jun. 2016 – Sep. 2016 | Bordeaux, France

- Developed a ML app to perform **Named-Entity Recognition** and wrote a **Chrome extension** to build a dataset by categorizing tokens on webpages;
- Indexed Wikidata into Solr to allow for **fast entity searching** (using FSTs).

ULB-BEAMS | Software Engineering Intern

Jun. 2015 – Aug. 2015 | Brussels, Belgium

- Wrote a **RISC-16 simulator** to help visualise the levels of the **internal signals** of the CPU, and supporting the architectures with and without a **pipeline**;
- Currently used to **teach students** of the department the internals of CPUs.

N7 CONSULTING | Junior Consultant

Sep. 2015 – Jun. 2016 | Toulouse, France

- Created a mobile application for a startup, client of the **Junior Enterprise**;
- The **multi-platform application** was written under the Cordova framework and features **geotracking** and **webpages caching** for offline access.

</> ADDITIONAL EXPERIENCE

"NEATJVM" | Meta-circular JVM Implementation [\[link\]](#)

Mar. 2016 – May. 2016 | Toulouse, France

Java **implementation of the Java Virtual Machine**, following Oracle's specification and aiming to be **meta-circular**. It is more a **proof of concept** than a real JVM.

"MARIOEC2" | Neuro-evolution applied to Mario [\[link\]](#)

Oct. 2015 – Nov. 2015 | Toulouse, France

Implementation of a **neuro-evolution algorithm** that evolves agents learning **how to play Mario** from visual input; running on compute-optimized **EC2 instances**.

"INTEL8086" | Well-documented IBM PC Emulator [\[link\]](#)

Mar. 2015 – Jun. 2015 | Toulouse, France

Small emulator, mainly of the **Intel 8086** chip, able to **run old code** from the '80s. Development focused on making the code as **easy as possible to understand**.

"BEACON" | Lightweight and Efficient Game Server [\[link\]](#)


Nov. 2014 – Feb. 2015 | Toulouse, France

Beacon is an alternative **server software** written in **C++** for the popular video-game Minecraft, and designed to **minimize memory and CPU usage**.

"NOCHEATPLUS" | Advanced Game Security Solution [\[link\]](#)

Apr. 2012 – Aug. 2012 | Bordeaux, France

Java application that **verifies exchanges** between a server and multiple game clients. It was **deployed on about 30 000 personal servers** when I handed it over.

 You can find the source code of all of my personal projects on my GitHub.

WRITE-UPS

- 50-pages Internship Report [\[link\]](#)
- Slides on the Neuro-Evolution of Augmented Topologies [\[link\]](#)
- Handout on Genetic Algorithms [\[link\]](#)

LANGUAGES

French	Mother Tongue
English	Advanced Level
German	Beginner Level
Spanish	Beginner Level