

Chemin des rosiers 5, 1004 Lausanne

□ (+33) 6 13 17 61 55 | ■ ghosn.adrien@gmail.com | ♣ https://people.epfl.ch/adrien.ghosn | □ aghosn | □ aghosn

Education _____

Ecole Polytechnique Federale de Lausanne(EPFL)

Lausanne, Switzerland

COMPUTER SCIENCE ENGINEERING

Sep. 2010 - PRESENT

- 2016 Present: PhD in Datacenter System Laboratory, supervised by Prof. Edouard Bugnion
- 2013 2016: Master Degree, Foundations of Software specialization (avg 5.75/6)
- 2010 2013: Bachelor Degree

Northeastern University(NEU)

Boston, U.S.A.

MASTER THESIS

Sep. 2015 - Mar. 2016

• Supervised by Prof. Jan Vitek in the Programming Languages Laboratory

Carnegie Mellon University(CMU)

Pittsburgh, U.S.A.

EXCHANGE YEAR IN BACHELOR DEGREE IN COMPUTER SCIENCE

Aug. 2012 - Jul. 2013

• Dean's list School of Computer Science for QPA > 3.75/4

Skills

Programming C/C++, Java, Scala, Go, Shell scripting, asm, Python, Haskell, JavaScript

Linux Kernel, OS design, Model Based System Design, Compilers & PL design, Theoretical Computer Science, Concurrent

Tools & Others & Distributed algorithms, TCP/IP networking, IT Security, Cryptography, Relational Databases, OpenStreet Map,

Google/Twitter's APIs, Hadoop, Spark, Map/Reduce, HTML & CSS, Tomcat, git, svn, vim

Research_

EPFL, DCSL

Lausanne, Switzerland

ONGOING RESEARCH

Aug. 2017 - Present

· Modern system oriented programming languages, software security, integrity, and confidentiality in Cloud deployments, Intel SGX

EPFL, DSCL Lausanne, Switzerland

LIGHT-WEIGHT CONTEXTS IN DUNE

Sep. 2016 - Jul. 2017

- · Allow processes to create and switch among different address spaces in a virtualized environment and experimented with loading/copying optimizations yielding a 5x improvement over fork.
- Intel VTX, Dune, Virtualization, Kernel module, Virtual Memory Management

Northeastern University

Boston, U.S.A.

EFFICIENT RUNTIME DEOPTIMIZATION FOR R(MASTER THESIS)

Sep. 2015 - Mar. 2016

- Implemented an assumption-based optimizer for an R JIT compiler to remove performance bottlenecks inherent to the language, while preserving semantics at runtime.
- On-stack replacement, assumption-based compiler optimizations, runtime deoptimization, R, LLVM, JIT compilers

ABB Corporate Research

Baden, Switzerland

APERIODIC SUPPORT IN FASA

Feb. 2015 - Aug. 2015

- Supervised by Dr. Manuel Oriol
- Fixed-priority servers, data-driven events, real-time control applications, kernel design, dynamic linking/loading & software updates, pi-calculus

EPFL, LAMP Lausanne, Switzerland

SCALAMETA: AST PERSISTENCE & OBEY: CODE HEALTH

Jan. 2014 - Feb. 2015

- Supervised by Prof. Martin Odersky & Dr. Eugene Burmako
- Obey: Scala compiler plugin that allows to automatically correct & reformat scala source code at compile time to enforce user-defined rules, adapt to library API changes, or comply with a different Scala compiler.
- · AST Persistence: Designed & implemented a new format to store compressed typed abstract syntax trees along scala binaries to resolve compiler version incompatibilities and code/maccros expansion in IDEs.

Extracurricular Activity

B10S (B1t On the Security, Underground hacker team)

S.Korea

CORE MEMBER Nov. 2011 - PRESENT

- Gained expertise in penetration testing areas, especially targeted on web application and software.
- Participated on a lot of hacking competition and won a good award.
- Held several hacking competitions non-profit, just for fun.

WiseGuys (Hacking & Security research group)

S.Korea

Member

Jun. 2012 - PRESENT

- Gained expertise in hardware hacking areas from penetration testing on several devices including wireless router, smartphone, CCTV and set-top box.
- Trained wannabe hacker about hacking technique from basic to advanced and ethics for white hackers by hosting annual Hacking Camp.

PoApper (Developers' Network of POSTECH)

Pohang, S.Korea

CORE MEMBER & PRESIDENT AT 2013

Jun. 2010 - PRESENT

- Reformed the society focusing on software engineering and building network on and off campus.
- Proposed various marketing and network activities to raise awareness.

PLUS (Laboratory for UNIX Security in POSTECH)

Pohang, S.Korea

MEMBER

Sep. 2010 - Oct. 2011

- Gained expertise in hacking & security areas, especially about internal of operating system based on UNIX and several exploit techniques.
- Participated on several hacking competition and won a good award.
- Conducted periodic security checks on overall IT system as a member of POSTECH CERT.
- Conducted penetration testing commissioned by national agency and corporation.

MSSA (Management Strategy Club of POSTECH)

Pohang, S.Korea

MEMBER

Sep. 2013 - PRESENT

- · Gained knowledge about several business field like Management, Strategy, Financial and marketing from group study.
- · Gained expertise in business strategy areas and inisght for various industry from weekly industry analysis session.

Honors & Awards

INTERNATIONAL

2014	Finalist, DEFCON 22nd CTF Hacking Competition World Final	Las Vegas, U.S.A
2013	Finalist, DEFCON 21st CTF Hacking Competition World Final	Las Vegas, U.S.A
2011	Finalist, DEFCON 19th CTF Hacking Competition World Final	Las Vegas, U.S.A
2012	6th Place , SECUINSIDE Hacking Competition World Final	Seoul, S.Korea

DOMESTIC

2015	3rd Place , WITHCON Hacking Competition Final	Seoul, S.Korea
2013	Silver Prize, KISA HDCON Hacking Competition Final	Seoul, S.Korea
2013	2nd Award, HUST Hacking Festival	S.Korea
2010	3rd Award , HUST Hacking Festival	S.Korea
2012	3rd Award , Holyshield 3rd Hacking Festival	S.Korea
2011	2nd Award , Holyshield 3rd Hacking Festival	S.Korea
2011	5th Place , PADOCON Hacking Competition Final	Seoul, S.Korea

Presentation

6th CodeEngn (Reverse Engineering Conference)

Seoul, S.Korea

Presenter for <DEFCON 20TH: THE WAY TO GO TO LAS VEGAS>

Jul. 2012

• Introduced CTF (Capture the Flag) hacking competition and advanced techniques and strategy for CTF

6th Hacking Camp - S.Korea

S.Korea

PRESENTER FOR < METASPLOIT 101>

Sep. 2012

• Introduced basic procedure for penetration testing and how to use Metasploit

November 19, 2017 Adrien Ghosn · Résumé 2



A Guide for Developers in Start-up

Facebook Page

FOUNDER & WRITER

Jan. 2015 - PRESENT

• Drafted daily news for developers in Korea about IT technologies, issues about start-up.

AhnLab S.Korea

Undergraduate Student Reporter

Oct. 2012 - Jul. 2013

• Drafted reports about IT trends and Security issues on AhnLab Company magazine.

Program Committees _____

2013	Organizer & Co-director, 1st POSTECH Hackathon	S.Korea
2012	Staff, 7th Hacking Camp	S.Korea
2012	Problem Writer, 1st Hoseo University Teenager Hacking Competition	S.Korea
2012	Staff & Problem Writer, JFF(Just for Fun) Hacking Competition	S.Korea