






Damien ENGELS

Enthusiastic Hacker

EDUCATION

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|----------------|---|--|
| 2013 - PRESENT | Masters Degree in Computer Science GPA: 5.51 / 6.0 | Swiss Federal Institute of Technology (EPFL) |
| 2012 - 2013 | Exchange Student GPA: 3.77 / 4.0 | Carnegie Mellon University (CMU) |
| 2010 - 2013 | Bachelor Degree in Computer Science GPA: 5.63 / 6.0 | EPFL |

WORK EXPERIENCE AND PROJECTS

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| JUN - SEPT 2015 |  Microsoft | Microsoft <i>Software engineer internship</i> |
| SEPT - DEC 2014 |  EPFL DSLAB | EPFL DSLAB <i>Improving C++ Virtual Calls Protection in the Code-Pointer Separation Mechanism</i> Master semester project. Modified the clang C++ compiler and built an llvm pass that allows to enforce validity of virtual table pointers at runtime with no meomory access and thus very low overhead (1-5%) |
| AUG - SEPT 2014 |  SwissMediaPartners AG | SwissMediaPartners AG <i>Software Engineering</i> Helped on all levels, from the decision on the tools used to the interaction with the clients. Implemented some of the core parts of one of the main projects in the company. Used and got familiar with an extensive number of web developpement tools (play framework, bootstrap, javascript, coffescript, less, sbt) |
| FEB - JUL 2014 |  Cisco Systems | Cisco Systems <i>Symbolic Execution Based Testing</i> Designed and implemented tools based on the S2E platform and integrated them into Cisco's toolchain and development process. Measured the benefit of white-box fuzzing for Cisco's products. Contributed to the S2E Plugins. |
| JAN - MAY 2013 |  Operating Systems Project | Operating Systems Project Worked with a partner to create a small Linux-like kernel with virtual memory and process scheduling. Uncovered concurrency and memory bugs to create a robust final product. Managed a large codebase (9 KLOC) using Git. |

TECHNICAL SKILLS & LANGUAGES

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|--------------------|--|--------------|------------------------------------|
| PROGRAMMING SKILLS | Scala, C, Java, bash, python, C++, javascript, lua, perl Web Developpment, Systems Programming, Compilers, Big Data Analytics, Reactive Programming | FLUENT BASIC | French, English Italian, German |
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AWARDS

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| FEB. 2015 | First place at Startup Weekend Lausanne |
| SEPT. 2013 | Excellence Fellowship for Master's Studies at EPFL |
| MAY 2013 | Dean's List of the School of Computer Science at Carnegie Mellon University |
| JULY 2010 | Mathematics and Applied Mathematics Distinction at Gymnase de Nyon |

EXTRA-CURRICULAR ACTIVITIES

STUDENT ASSISTANT Information, Computation, Communication - Compiler construction
Information Science - Discrete Structures - Information technology project

ROWING Club d'Aviron Nyon (3rd place in 8+ Junior at the Swiss Championships)
Carnegie Mellon Varsity Crew (2nd place in 4+ at the Head of the Ohio)

STUDENT COUNCIL Masters Class delegate and Vice-President of [CLIC](#)
(Association des étudiants en informatique et communications)

[hc²](#) Organization of one of Switzerland's largest algorithmic contest.

RELEVANT CLASSES

- Operating System Design and Implementation (Carnegie Mellon University)
- Databases Applications (Carnegie Mellon University)
- Foundations of Software Engineering (Carnegie Mellon University)
- Graph Theory (Carnegie Mellon University)
- Algorithms (Swiss Federal Institute of Technology)
- Compiler Construction (Swiss Federal Institute of Technology)
- Distributed Algorithms (Swiss Federal Institute of Technology)
- Cryptography and Security (Swiss Federal Institute of Technology)

PERSONAL DATA

PLACE AND DATE OF BIRTH: Morges, Switzerland | 5 May 1992
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