

Lucas Maystre

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23 years old
Swiss citizen
unmarried



Objective

Eager to work on some of the challenges the Internet is facing, I am looking for a master project related to network applications or information security.

Education

2010 – 2012
(expected)

M.Sc. in Communication Systems

Ecole Polytechnique Fédérale de Lausanne (EPFL)

Specialization in Information Security. Currently working on a project related to phishing with the Operating Systems Laboratory.

2010 - 2011

IVEO Graduate Exchange Program

University of California, Berkeley

One-year exchange program. Hosted by Prof. Dawn Song, I worked on web application security and took graduate classes.

2006 – 2009

B.Sc. in Communication Systems

Ecole Polytechnique Fédérale de Lausanne (EPFL)

Minor in mathematics. Optional courses taken primarily in the fields of networks, signal processing and applied mathematics.

2003 – 2006

Federal Maturity Diploma

Gymnase de Chamblandes, Pully

Was given the prize of French and the prize of Latin. Made a Maturity work on the analysis and synthesis of a guitar string sound.

Practical Experience

May 2011 – August
2011

Facebook, Palo Alto – Security Engineering Intern

Participated in ongoing efforts to make Facebook's core infrastructure more secure and to help engineers write safer code.

March 2010 – June
2010

Google, Zürich – Software Engineering Intern

Launched a new version of a web application that allows to target ads on YouTube. Worked in a small, international team.

September 2009 –
February 2010

Open Systems AG, Zürich – Intern

Collaborated with a team of security engineers to develop, maintain and improve network security products operated in 100+ countries worldwide.

2006 - Today

Instrumat SA, Renens – Web Development

Developed and maintained a website in 2 languages, as well as other web applications (intranet, mailing-list sending system).

Academic Projects

- 2011 **GeoTrack – Course project**
Researched the trade-offs between utility and privacy for location-based services on the web. Developed a user-friendly privacy « assistant » as an extension for Firefox.
- 2010 **Prof. Dawn Song’s Group, UC Berkeley – Semester project**
Working with a team of students on automatic discovery of cross-site scripting attacks on web applications. Instrumented PHP’s interpreter to record an execution trace, used then for symbolic execution.
- 2008 – 2009 **Human Computer Interaction Group, EPFL – Semester project**
Developed a web framework, using standard web technologies, to easily build music recommender system interfaces on top of an existing music provider (Last.fm). Collaborated with another student.

Relevant Computer Skills

- Advanced HTML, CSS, JavaScript, PHP, MySQL for web developement.
Java & several frameworks including Guice, WebWork.
- Intermediate C, C++, Perl and Python programming
Matlab, and its Image Processing Toolbox
LaTeX, XML, XPath, PostgreSQL
- Basic Wireshark, VHDL

Relevant Courses

- Computer Architecture
- System-Oriented Programming
- Graduate Computer Networks
- Network Security
- Privacy – from Theory to Practice
- Graph Theory
- Graph Theory Applications
- Stochastic Models in Communication
- Principles of Digital Communication
- Signal Processing for Communications
- Information Theory & Coding
- Algorithmic Coding Theory
- Artificial Intelligence
- Cognitive Psychology

Languages & Personal Informations

- Languages **French :** first language
English : fluent, written and spoken
German : fluent, written and spoken
- Volunteering **Madagascar, Summer 2005**
Went three weeks in Antananarivo and Anjozorobe to help build a school, with a group of young people of my region.
- Hobbies Football – I’m a referee, currently in 3rd division ; playing piano – I took lessons during 5 years ; photography.