Lucas Maystre

Av. du Château 9b
CH-1020 Renens
☎ +41 76 482 19 63
✉ lucas@maystre.ch
🖱 http://lucas.maystre.ch

24 years old
Swiss citizen
unmarried

Education

2010 – 2012	**M.Sc. in Communication Systems** **Ecole Polytechnique Fédérale de Lausanne (EPFL)** Specialization in Information Security. Master's thesis on music recommendation for groups of people.
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 Developement** Developed and maintained a website in 2 languages, as well as other web applications (intranet, mailing-list sending system).

Academic Projects

2012	**LCA 4, EPFL – GroupStreamer** Built a recommender system that generates a music playlist for a group of people by mining their music library. Implemented the system as an application for Android devices.
2010 – 2012	**Network Architecture Lab, EPFL – Phinishing Phishing** Researched an innovative approach to fight phishing in the web browser, building on the idea of bridging the gap between the user's intention and the browser's knowledge about a web page. Built a Firefox extension.
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 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 from my region.
Hobbies	Football – I'm a referee, currently in 3rd division ; playing piano – I took lessons during 5 years ; photography.