ULRICH GUILLAUME

3, AV. D'AÏRE • 1203 GENÈVE, SWITZERLAND
PHONE: 0041 78 604 95 57
E-MAIL: GUILLAUME.ULRICH@BLUEWIN.CH
NATIONALITY: SWISS
BORN: FEBRUARY 26TH, 1990

EDUCATIONAL BACKGROUND

2011 - 2013 :　　**Master in Computer Science**
Ecole Polytechnique Fédérale de Lausanne (EPFL)

2008 - 2011 :　　**Bachelor in Computer Science**
Ecole Polytechnique Fédérale de Lausanne (EPFL)

2004 - 2008 :　　**Swiss Federal Maturity – Collège Voltaire, Genève**
Advanced mathematics, specific option: ancient Greek, complementary: physics

EXPERIENCE

Jan – July 2014 :　　**EPFL – Ecological Engineering Laboratory – *Service civil***
Development of an autonomous catamaran boat to take different kind of measurements of lake Geneva.
- Development, test and improvement of the reliability of an autonomous boat recording physical and chemical measurements of Geneva Lake.
- Development of the boat control application in C++ and LabView
- Development and maintenance of a data visualization web portal, using Scala and the Play! framework

Sept – Dec 2013 :　　**EPFL - Energy Center – *Service civil***
Development of a web portal to manage and visualize energy production and distribution in canton de Vaud, Switzerland.
- Development of a server-client application using J2EE/Tomcat and Spring Hibernate

Feb - August 2013 :　　**SAP Research LAB, Sophia Antipolis, France – *Internship/Master thesis***
Creation of an application aiming at improving the transparency and control of application developers and users.
- Design and development of an application to scan a given Java library (jar, war, pom, ivy, osgi) and build its dependency tree, using Scala and Java
- Design and development of a constraint language and constraint solving system, using Scala and Prolog
- Design and development of an application retrieving and storing the known vulnerabilities in a database, using Scala and SAP Hana SQL
- Design and development of an application applying user defined and automatically defined constraints on a given Java application's dependency tree and displaying the results, using Scala, J2EE/Tomcat, Html and Javascript.

July - August 2009 :　　**Eurospider (LEXspider), Zürich, Switzerland - *Internship***
Development of a web application for the iPhone. The goal of the application was to facilitate the browsing between the different articles of the main swiss laws.
- Design and development of an application creating an iPhone optimized web application, from the main swiss laws, using Java, Html, Javascript and Php

PROJECT EXPERIENCE

Spring 2013 :   **Master thesis: Dependency Chaos - Know your libraries**
Creation of an application aiming at improving the transparency and control of application developers and users.
- Scan of a given Java application's dependencies to build the dependency tree
- Constraint language definition in order to apply constraints on the tree
- Application of constraints written in that language on the tree
- Automated creation constraint defined in the defined constraint language
- Display of the result as an HTML report

Fall 2012 :   **Master semester project: SHotDraw**
Translation of JHotDraw into Scala and replacement of the observer patterns using the Scala reactive library.

Fall 10 - Spring 11 :   **Bachelor project: PocketCampus**
Development of a campus helper application on android.

ASSISTANTSHIPS

Fall 2012 :   **EPFL – Software engineering** – *Computer Science*
• Java and Android teaching assistant

2011 – 2012   **EPFL – Computer-aided engineering** – *Environmental and Civil engineering*
• Java teaching assistant

Spring 2010:   **EPFL – Information technology project** – *Computer and communication sciences*
• Java Teaching Assistant

COMPUTER SCIENCE SKILLS

System :   OS: Linux, Windows, Unix, Mac OS
DBMS: SAP HANA, MySQL, Oracle
Programming :   Main: **Java**, **Scala**, Java for Android, Prolog
Experienced: C, C++, Shell, Objective-C, Perl, Python
Web Publishing :   J2EE/Tomcat, Play framework, SQL, XML, HTML, Javascript , CSS, PHP
IDE :   Eclipse, NetBeans, Code::Blocks, Geany

LANGUAGES

French :   Mother tongue
English :   Full professional proficiency (C1)
German :   Limited working proficiency
Bengali :   Elementary proficiency

SOFT SKILLS

- Flexibility, open-mindedness and ability to adapt quickly to new ideas and situations.
- High interest in acquiring new knowledge, solving new problems and sharing my knowledge with others
- Autonomous, highly motivated along with a positive attitude and working well under pressure

OTHER INTERESTS

Sports :   Ice Hockey, Triathlon and many others
Music :   9 years of piano at CPM Genève