

MATHIEU SAVY

SOFTWARE ENGINEER



CONTACT INFORMATION

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WORK EXPERIENCE

Jan. 2014 - Present

Accenture, Toulouse, France

Software consultant for Safran and Airbus Defence and Space

- Development of a Product Lifecycle Management (PLM) web application based on Windchill (Java EE, Javascript, Tomcat)
- Data extraction and report generation (Java, Cognos, SOA)
- Development of an Eclipse tool analyzing the complexity of a PLM web app (Eclipse, JDT, Java)

Feb. 2013 - Jul. 2013

Vescape, Berlin, Germany

Six-month project assignment

- Development of a 3D racing game (C++, Irrlicht, P2P networks)
- Prototyping a web application collecting data from fitness equipments and managing training programs (Python, Django, Javascript)

Sept. 2011 - Feb. 2012

Maithu IT Solutions, Dublin, Ireland

Six-month internship

Development for iOS devices: (C, Objective-C, iOS SDK, SQLite)

- A video streaming application allowing to watch Irish TV channels on an Apple-TV
- iOS application to highlight festivals and events in Ireland
- iOS application of the Irish Times (development of the model and controller)

Apr. - Jul. 2010

Complex Systems Institute (CNRS, ISC), Paris, France

Internship followed by a summer job

- Design of a laser control system for a confocal microscope (C, C++, Java, OpenCV, SWING)

EDUCATION

Sept. 2010 - July 2013

University of Technology of Belfort-Montbéliard, (UTBM), Belfort, France

Master in computer science

Feb. 2012 - Jun. 2012

Vilnius Gediminas Technical University, (VGTU), Vilnius, Lithuania

Exchange semester in Lithuania. Computer science courses

Sept. 2008 - Jul 2010

Technological Institute of Tarbes, (IUT), Tarbes, France

Two-year technical degree in Electrical Engineering and Industrial Computing

SKILLS

Programming

Java SE et EE (Oracle certifications), Objective-C, Swift, HTML/CSS/Javascript

Frameworks

iOS SDK, Android SDK, Node.js, SocketIO, Facebook API, Django, FireBase, JDT, Swing

Tools

Git, SVN, Redmine, MySQL, SQLite, MongoDB, Eclipse, ADT, XCode, VIM

Languages

English: Full professional proficiency - French: Mother tongue - Spanish: Conversational

Hobbies

Slackline, Rock Climbing, Skiing, Cinema

Active member of [ESN](http://www.esn.fr), an organization helping 400 foreign students each year in Toulouse.

PERSONAL PROJECTS

Limezy	<p><i>iOS, Android, Node.js, Facebook API, MongoDB</i></p> <p>Limezy is an application that helps organise parties by allowing users to see what their friends are bringing to a Facebook event. It also gives purchase suggestions and cocktail recipes based on what guests are planning to bring. A REST API managing events has been developped with Node.js. The iOS and Android applications are still under development.</p>
SubStretcher	<p><i>Javascript, jQuery, Underscore.js, Bootstrap</i></p> <p>SubStretcher is a tool written in Javascript allowing to fix subtitle synchronization. This operation usually involves heavy video editor but with SubStretcher, the fix can be made in a matter of seconds using only a web browser.</p>
CSVEdit	<p><i>Java, JDT</i></p> <p>This open-source Eclipse plugin provides a convenient way to edit a CSV file from Eclipse. I began work on this project as a contributor. I am now a co-administrator. I also refined a fork of the original plugin for the specific needs of my current company.</p>
3D Printer	<p><i>Java, Arduino, C, Blender</i></p> <p>I built a 3D stereolithographic printer using simple components: an arduino card, a wooden box, stepper motors and a projector. I had to develop STL Chopper— a java software that cuts the 3D model into slices and drives the printer.</p>
Apple-TV Hacks	<p><i>Objective-C, iOS, Reverse Engineering, Debian</i></p> <p>I developed a sample application for Apple-TV. The ATV does not allow the installation of third-party applications and Apple does not provide any SDK. The challenge was, despite those limitations, to find a way to develop, install, and run an homemade application on the Apple device.</p>
Java Certifications	<p><i>Java, Java EE</i></p> <p>After graduating, I took some time to explore the java world. As a private candidate, I took and passed the Oracle Java Programmer Certification (OCJP) and Java EE Expert Certification (OCEJWCD) .</p>
Labyrinth Explorer	<p><i>Java, Android</i></p> <p>I designed a robot able to find its way through a labyrinth. The robot is controlled from a remote IA on an Android device. The labyrinth is mapped in real time on a mobile application. Additional features are: manual control of the robot, shortest path navigation in a labyrinth, exploration of a complex environment.</p>
Library Manager	<p><i>Java, Swing</i></p> <p>A school project written in Java. Library Manager is a software for public libraries. It provides a convenient way to manage books, documents, authors, editors, borrowers and employees.</p>
Line-follower robot	<p><i>C, Pic Microchip, Electronic</i></p> <p>A line-follower robot able to reach high speeds. The main challenge was to deal with the limited embedded computing power. The IA was splitted into two microcontrollers PIC16F communicating through I2C.</p>