Maxime Chéramy

Software Engineer

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▬ Education

2011 – 2014 **PhD in Computer Science**, University of Toulouse, France.
Title: Study and evaluation of real-time multiprocessor scheduling policies.
Defended at LAAS-CNRS on December 11, 2014.

2006 – 2011 **Ingénieur en Informatique**, *equivalent to a Master's degree in Computer Science*,
Institut National des Sciences Appliquées de Toulouse (INSA Toulouse), France.

▬ Work Experience

Since July 2015 **Software Engineer**, *CodinGame*, France.
Full stack software engineer. Frontend development using JavaScript, AngularJS, HTML5/SCSS.
Backend development using Java, MyBatis, PostgreSQL.

Sept. 2014 – June 2015 **Teaching and Research Temporary Assistant (ATER)**, *INSA Toulouse*, France.
Taught programming (**C**, **Java** and Ada), system administration (Bash and networks) and
supervised projects.

Sept. 2011 – Dec. 2014 **Research Engineer / PhD student**, *LAAS-CNRS*, France.
Implemented a scheduling simulator as part of my research work. This software allowed me to
implement the state of the art real-time scheduling algorithms.
Part-time teacher at INSA Toulouse.

Feb. – June 2011 **Software Engineer (intern)**, *Google Zürich*, Switzerland.
Developed a prototype aiming at improving the quality of the translations collaboratively. My
work was to design and develop the entire prototype as an experimental module for YouTube.
This was achieved using **JavaScript** and **Python**.

2007 – 2011 **System Administrator (volunteer)**, *Computer Center of INSA Toulouse, France.*
System administrator of the student servers: Hosting (Apache, PHP, MySQL); Webmail (Round-
cube); Project managing (Git, Subversion, Redmine, Trac); Instant Messaging (Jabber/XMPP).

July – Sept. 2010 **C++ Developer (intern)**, *University of Reading, UK.*
Developed a 3D polymer visualizer for a simulation program designed at the Mathematics
department (Developed in **C++** with the Qt and OpenSG libraries).

July – Aug. 2009 **Java Developer (intern)**, *Atos Origin Integration, Toulouse, France.*
Studied the adequacy of the telemetry decommutation Framework OCTAVE to implement the
control center simulator for the CNES stratospheric balloons (*Centre National d'Études Spatiales*,
the French space agency). Used **Java** to develop the user interfaces and worked the connection
of a satellite modem driver to a CORBA bus.

July – Aug. 2008 **Web Developer (intern)**, *Linagora GSO, Toulouse, France.*
Developed in **PHP** for a corporate web portal. Added several features, fixed bugs and refactored
the code into modules for better reusability. Also worked with the CMS Drupal.

Personal Projects

Since 2010   **TacOS: An Operating System**.
TacOS is an operating system (for Intel x86) that I developed with a few friends, initially as an educational project but now as a hobby. I worked on several parts of the project including memory paging, libc, text display and file systems (FAT and Ext2). The aim of the project is mainly to learn more about OS design. `http://tacos-team.github.io/en`

2012   **Pweek: An Android Game**.
Pweek is yet another small game for Android I developed with a friend in order to gain experience with Android development (tools, platforms, publishing process). The game was downloaded more than 10,000 times. Other games were developed but not published.

2008 – 2010   **Rex: File Sharing Software**.
Rex was a file sharing system based on the SMB and FTP protocols with a decentralized search engine. This software, developed in Java, was a success: half of the students living on the university campus installed it on their computer.

Organizations

2007 – 2014   **Cod'INSA**.
Organizer and one of the founders of Cod'INSA, a programming contest with up to 80 contestants each year from 5 different engineering schools. `http://codinsa.org`

2006 – 2009   **Computer Science Club**, *INSA Toulouse*.
In charge of the Computer Science Club of my engineering school: organizing programming activities, Linux install parties and a lot of other events to promote computer science.

Languages

French   **Native speaker**

English   **Good command of written and spoken English**
Scored 955/990 at the TOEIC in 2009, work experience abroad in 2010 and 2011.

Technical Skills

Languages   Java, C, Python, C++, Bash
Web dev.   HTML, CSS, JavaScript, AngularJS, PHP
Databases   PostgreSQL, MySQL
Softwares   Vim, Eclipse, Git, Jenkins, Grunt, zsh

Contests

France-IOI   France-IOI is the association in charge of the selection and training of the French team for the International Olympiads in Informatics. However, the website is open to everyone and provides hundreds of algorithmic exercises. `http://www.france-ioi.org`
Rank: Currently in the top 10 on the overall ranking.

AI Challenge 2010   The Google AI Challenge is an international programming contest organized by the Computer Science Club of the University of Waterloo. `http://tron.aichallenge.org/`
Rank: Finalist, 41st on approximatively 1400 contestants.

Prologin 2007   Prologin is a French national programming contest. `http://www.prologin.org`
Rank: Finalist, 18th on approximatively 1000 contestants.

Eurobot   Eurobot is an international students robotic contest. `http://www.eurobot.org`
Qualified to the French Cup in 2004, 2005 and 2007.