

Quentin LEGUAY, SOFTWARE ENGINEER

Research and Development: Data Processing and Simulation

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EDUCATION

2011	Software Engineering master's degree at INSA de Rennes, France Data Processing and Mathematical Modelling International Exchange Semester: Artificial Intelligence and Data Processing specialization at Technische Universität Wien, Austria
2008	Rennes 1 University, France, Mathematics and Software (Major), Physics and Electronic (Minor)
2006	Baccalauréat of Science, Mathematics specialty

TECHNICAL SKILLS

OOP	Conception, Architecture and Programming: C++ , Java, C#
Image processing	Image Processing, Real Time 3D Rendering, WebGL
Artificial Intelligence	Machine Learning, Neuronal Networks, Heuristics and Local Optimisation, Multi-agent Systems, Data Mining
Web Development	Client-side: HTML 5/CSS3, JavaScript ES6, JQuery, React, Bootstrap, Responsive Design, WordPress Server-side: PHP 5, Apache, Node.js, Data Base management (MySQL, PostgreSQL, SQLite)
System	Windows and Linux/Unix
Mathematics	Statistics: Regression Analysis, Time series, Probabilities, Function Optimisation
Others	SCRUM Methodology Cloud: Salesforce (administration and development) Office Software: Microsoft Office and Open Office Numerical computing and simulation: Matlab, SAS, Comsol, R
Spoken Languages	Fluent English , fluent Spanish, knowledges in German and Portuguese

PROFESSIONNAL EXPERIENCES (see details page 2)

2017	Full Stack Developer, co-founder, Tykal.fr
2012 - 2016	Research and Development Engineer, 3DVIA (Dassault Systèmes Group), Paris ¹
2011 - 2012	Conception and Development Engineer, Innovation Consultant at EI-technologies, Paris ²
2011	Research Internship in an Artificial Intelligence Laboratory at INRIA/IRISA, Rennes ³
2010	Software Development Internship at Capgemini Telecom Media Défense, Rennes ⁴
2009	Student job as Freelance Webmaster (creation and management), Orion, Rennes ⁵

PERSONAL EXPERIENCES

2016 - 2017	Solo travel from Canada to Argentina (18 countries visited in 13 months), itinerant webmaster
2003 - 2010	Treasurer of an NGO working on the creation of a public games library

HOBBIES

Sport	Karate (brown belt), Natation, Scuba Diving (Advanced Open Water Diver).	Culture	Concert and Street Art enthusiast.
Others	Politics, Sociology and Economics, Technical and Scientific Innovation, Travel (solo backpacking, 31 countries visited).		

DETAILS OF MY PROFESSIONAL EXPERIENCES

1 DASSAULT SYSTEMES – Research and Development Engineer (3DVIA Home) May 2012 to March 2016

- In charge of the pricing module
 - Functional and technical analysis, conception, architecture and implementation in C++
 - Complex pricing process optimization
 - Data storage optimization
 - Interconnection with the CRM Store Manager (SPI Software)
 - Project management and monitoring of the project (planning, weekly meetings on work progress, operational acceptance testing)
 - Functional specifications
 - Data serialization
- In charge with the Closet Door 3D conception module
 - Functional and technical analysis, conception, architecture and development of the module in C++
 - Dynamic 3D modelling using the 3DVIA Home framework
 - Formation and supervising of an outsourced development team (3DPLM, India)
- Needs assessment for the new generation of professional applications on Home.by.me
- Project management using the SCRUM methodology

Manager: Juba Hadjali, CTO – juba.hadjali@3ds.com

2 EI-TECHNOLOGIES – Junior Software Engineer (Practice LABs) October 2011 to April 2012

- Restructuring of the tax management application for the French Nuclear Security Agency (ASN)
 - Development (Flex / ActionScript 3)
 - MVC Architecture, tax computation engine, user interface
 - Functional and operational acceptance testing
- Proof Of Concept development
 - Mobiles applications (Flex, HTML5, JavaScript/JQuery)
 - Cloud applications (Salesforce, Apex, Web Services)

Manager: Stéphane Juvigny, LABs director – stephane.juvigny@ei-technologies.com

3 IRISA / INRIA – Research Internship (DREAM Team) March to September 2011

- Development of an agricultural landscape simulator within the scope of a cooperation with the National Institute of Agricultural Research (INRA)
 - Conception and development of the simulator in C++
 - Data and Graph Mining, Unsupervised Learning, Multi-Agent Systems
 - Local Search algorithms
 - Geographic Information Systems

Supervisor: Thomas Guyet, Maître de Conférences at Agrocampus Ouest, IRISA – DREAM, Secretary of the French Association for Artificial Intelligence – thomas.guyet@irisa.fr

4 CAPGEMINI – Software Development Internship (CAIRN Team) June to August 2010

- Development of an application for the analysis of telecommunication equipment quality for France Télécom / Orange
 - Java, SQL, Maven, Hibernate, Junit / DBUnit, Log4J, Drools

5 FREELANCE Webmaster – Student Job 2009

- Management and improvement of an e-commerce site
 - PHP, JavaScript, XHTML, server management, consulting in e-marketing