Alexandre GALOPIN

Lead front-end developer
Ph.D. in medical informatics

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I am a polyvalent software developer driven by a keen interest for new technologies and innovative ways to improve health and lifestyle. My background includes a Ph.D in medical informatics and multiple web and mobile development projects using the latest trends in computer science.

Professional experience

Lead front-end developer, GoSPOORT, Jan. 2016 - now
Copenhagen, Denmark

‣ Participation to the elaboration of the GoSPOORT startup from the first days of the company. The main goal of GoSPOORT is to promote a new way to book sport lessons, more flexible and adapted to the consumer's needs.

‣ Responsible for the technical choices and the development of the front-end platform. Management of a UX developer consultant and collaboration with a UX designer and a backend developer, under direct supervision of the CTO and the CEO of the company and according to Agile methodology.

‣ Development of a prototype single-page application using Backbone.js and migration to a Symfony2 platform with React user interfaces.
Technical aspects : HTML5, CSS3, SCSS, Bootstrap, jQuery, React, Backbone.js, CasperJS, Vagrant, Git, JIRA

R&D engineer - Ph.D. candidate, VIDAL / INSERM, Sep. 2012 - Oct. 2015
Paris area, France

‣ Thesis topic : Ontological modeling of clinical practice guidelines to provide flexible decision support
Development of a clinical decision support system for the management of patients with hypertension and type 2 diabetes using semantic web technologies.

‣ Analysis of clinical guidelines using natural language processing techniques and ontologies to identify shared concepts and specificities.

‣ Formalization of clinical practice guidelines and development of a JS widget producing an interactive and browsable decision tree to allow patient data structuration using medical terminologies (ICD-10, DRC, CISP2).
Technical aspects : JAVA, PHP, MySQL, Python, OWL, JENA API, HTML5, CSS3, JavaScript, RequireJS, Graphviz, Tomcat, Maven, REST, XML/XSD, Test Driven Development, Continuous delivery, Git, LaTeX

Independent iOS developer, Sep. 2011 - Sep. 2012
Paris area, France

‣ Development of Génériques TV, an Apple Appstore featured iOS game that was downloaded 100,000 times. Integration of Game Center, Facebook and Twitter sharing.
https://itunes.apple.com/app/generiques-tv/id467576578

‣ Development of CeleBody, an iOS application that calculates the body similarity between the user and the most famous women to help them maintaining an healthy waist-hips ratio.
https://itunes.apple.com/app/celebody/id919961248
Technical aspects : Objective-C, SQLite, CocoaPods, Social framework

Scientific developer intern, Sanofi, Mar. 2011 - Sep. 2011
Paris area, France

Implementation of modules for XDB2 (X-Ray Cristallography Database), an internal web-based platform used by 200 scientists of the Structural Biology department to enter data about every step of the crystallization process.
Technical aspects : ASP.NET/C#, PL/SQL, Oracle DB

Education

2015	**Ph.D.** *summa cum laude*	Université Pierre et Marie Curie (UPMC) *Paris, France*	Medical informatics
2011	**M.Sc.** *cum laude*	Université Paris Sud *Orsay, France*	Bioinformatic and biostatistics
2009	**B.Sc.** *cum laude*	Université d'Evry Val d'Essonne *Evry, France*	Computer science

Skills

Informatics	<u>General :</u> JAVA, Python, C#
	<u>Web development :</u> PHP, Symfony2, Twig, Javascript, HTML5, CSS3, SCSS, Bootstrap, XML/XSD
	<u>JS frameworks / libraries :</u> Node.js, Backbone.js, jQuery, RequireJS, AngularJS, React, Underscore.js, Express, Gulp, Grunt
	<u>iOS development :</u> Objective-C, Cocoa, CocoaPods, WatchKit, XCode
	<u>Semantic Web :</u> OWL, SWRL, RDF, JENA API, Protégé
	<u>Databases :</u> MySQL, MongoDB, SQLite, Oracle, PL/SQL
	<u>Scientific :</u> R, Scilab
	<u>Other skills :</u> Git, Agile, SCRUM, JIRA, Vagrant, REST, Tomcat, Maven, Test-Driven Development, Continuous delivery, Photoshop, Illustrator, UNIX
Topics	Medical informatics, Artificial intelligence, Decision support, Knowledge engineering, Semantic web, Ontology, Natural language processing, Web development, iOS development, Project management, Scientific writing, Research

Scientific publications

Ontological modeling of clinical practice guidelines to provide flexible decision support.
Alexandre Galopin
Université Pierre et Marie Curie - Paris VI, 2015. Français.

An Ontology-Based Clinical Decision Support System for the Management of Patients with Multiple Chronic Disorders.
Alexandre Galopin, Jacques Bouaud, Suzanne Pereira, Brigitte Séroussi
Stud Health Technol Inform. 2015;216:275-9.

Clinical practice guidelines consistency for patients with multimorbidity: a case-study in the management of type 2 diabetes and hypertension.
Alexandre Galopin, Jacques Bouaud, Suzanne Pereira, Brigitte Séroussi
Stud Health Technol Inform. 2015;210:344-8.

Using an ontological modeling to evaluate the consistency of clinical practice guidelines: application to the comparison of three guidelines on the management of adult hypertension.
Alexandre Galopin, Jacques Bouaud, Suzanne Pereira, Brigitte Séroussi
Stud Health Technol Inform. 2014;205:38-42.

Comparison of clinical practice guidelines from a knowledge modelling perspective: a case study with the management of hypertension.
Alexandre Galopin, Jacques Bouaud, Suzanne Pereira, Brigitte Séroussi
Stud Health Technol Inform. 2014;197:21-5.

Personal projects

MyJobPartner, 2015
Development of a web platform designed to help job seekers to manage their applications and to find relevant jobs.
Technical aspects : *Node.js, Express, AngularJS, Grunt, MochaJS, MongoDB, REST API, SASS, HTML5*

Food Alerts, 2015
Creation of a prototype Android application for a quick analysis of food and drug composition and allergen detection.
Food Alerts won the "HEALTH SOLUTION MOST LIKELY TO SUCCEED" award at the Hacking Health Camp 2015.
Technical aspects : *Android SDK,Photoshop*

MILW - Movie collection manager, 2012
MILW is a multi-user website created to facilitate the management of large movie collections. The goal was to offer a great responsive interface but also methods to make the best use of a collection. The website is developed in PHP/MySQL and relies on the Allociné API to get all the information about movies.
Technical aspects : *PHP5, MySQL, JQuery, HTML5, CSS3*

MangaDownloader, 2012, 2015 (v2)
MangaDownloader is a website developed to allow users to download and manage their manga and comics collections. It relies on manga reading websites such as Mangafox or MangaReader. We then offer features to improve reading experience such as one-click download, automatic updates or export to CBZ.
Technical aspects : *Node.js, Express, PHP5, MySQL, React, JQuery, HTML5, CSS3*

Other information

Languages	- French (mother tongue)
	- English (full professional proficiency, BULATS C1)
	- German (elementary proficiency)
	- Danish (beginner)
Driving license	Category B + vehicle
Culture & sports	Tennis (competitive level), Cyclism (competitive level), Handball, Surf
	Digital photography, History of France
Other	Ph.D. student delegate at the LIMICS (UMR-S 1142) laboratory council (2013-2015)
	Supervision of a M.Sc. trainee (2015)