

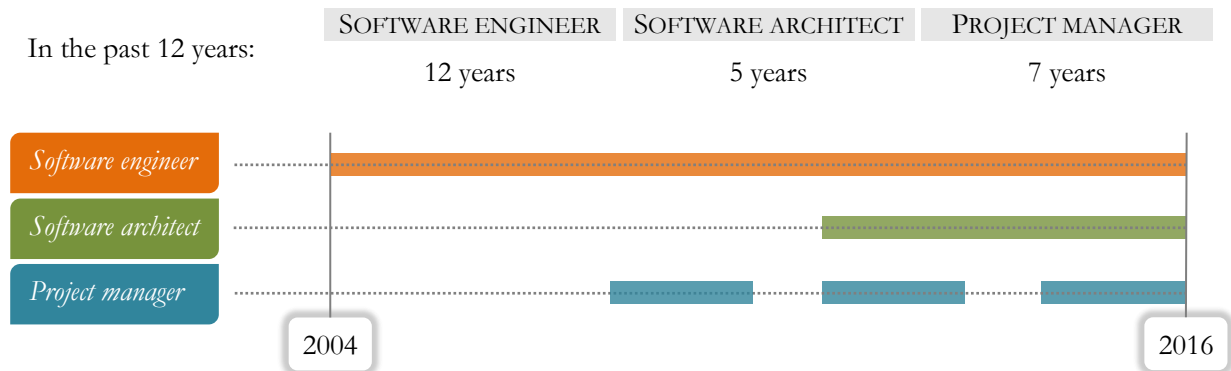
AMENEL VOGLOZIN, PHD

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PROFESSIONAL SUMMARY

- Software project management**
- Agile methodologies (Scrum, XP, FDD)
 - Writing of requirements, specifications, guidelines, and developer and user documentation
 - Coordination of stakeholders and software development teams
- Software engineering**
- **Strong expertise in Java EE, C++ and Web technologies**
 - **Object-oriented programming** (Java, C++, PHP, JS, design patterns, UML)
 - **Java EE frameworks & tools** (Spring, Spring boot, Hibernate, Maven, Ant...)
 - **Modern Web technologies** (Responsive Design, HTML5, CSS3, Less)
 - Algorithms and data structures; **PhD in database search and optimization**
 - Software architecture; full-stack software engineering
 - Unit tests, functional tests and integration tests; TDD & BDD
- Sample source code: <https://showcase:showcase@vcs.khalemy.com/>
- Other**
- **Maintainer** of the **MercurialEclipse** open source project
 - **Maintainer** of the **javahg** open source project
 - **Registered English to French translator**
 - Past experience as a researcher with several publications and talks
 - University level teaching (object-oriented languages, advanced algorithms...)

WORK EXPERIENCE



TECHNOLOGIES AND TOOLS



Since July 2013

Khalemy – Belfort, France

Khalemy is a proprietorship that I started in order to work as a freelance consultant. In-between contracts, I work on open source projects or freeware projects, the latter of which are generally started to fulfill a personal need. These projects help me “stay sharp” with respect to my technical level. I outsource the tasks for which I do not have the appropriate skills. Software available at <https://www.khalemy.com/>

SOFTWARE ARCHITECT AND PROJECT MANAGER

- Currently working on Verbus, a web application –built with Java, Spring boot and AngularJS– for the learning of verb grammar and conjugation in foreign languages.
- Handled the technical and business relationship with a subcontracted company on *Kantabile*, an interactive multimedia program with 3D rendering of fretted-instruments. I devised the contract, wrote specifications, set up milestones, conducted all meetings and supervised the delivery of the final product.
- Managed *Oblivion*, an internal project which gave birth to a plugin for OpenOffice. Team of 2.
- Consulted with Clemessy SA as a senior Java EE and AngularJS software architect on two green web application projects, one for the Ministry in charge of environmental issues and the other for SNCF, the national railway transportation company. My role was to set up the software architecture and help develop both projects while respecting very tight time constraints.

Java 8 & Java 7, AngularJS, jQuery, JavaScript, NPM+bower, Twitter Bootstrap, JPA, OpenOffice SDK, Maven, Ant, C++, Parasoft C++test, PHP5, PostgreSQL, MySQL, agile FDD methodology.

October 2013 – April 2014

PSA Peugeot Citroën – Belfort area, France

PSA is an automotive group, the owner of the “Peugeot” and “Citroën” brands. They had an IT department (several hundreds of people) that included a “development center” (CDRI) tasked with creating the business-related Web applications that the other departments and subsidiaries of the group need. CDRI calls in consultants when skills required for a project are not available internally. I was called back to work for them for the second time, as a Java and AngularJS consultant.

SENIOR SOFTWARE ENGINEER

- Consulted with PSA Peugeot Citroën on the **design of a new document management application** in Web 2.0 standards using HTML5, a Responsive Web Design paradigm and modern JavaScript toolkits (AngularJS, requireJS, jQuery). Project in a hybrid Scrum-XP methodology (sprint planning sessions, daily stand-up meetings, sprint reviews, demo sessions, etc.).
- **Developed an advanced search module using Oracle Text** (using existing specifications).
- **Defined the REST API** for the frontend-backend web service stack.
- **Researched, designed and implemented performance optimizations** for the entire application.

Java EE, AngularJS, jQuery, Bootstrap, Enterprise Architect, REST, SOA, JUnit, TDD, BDD, Lintbuild, Eclipse.

September 2013

Altran Technologies – Belfort, France

Altran is a global consulting firm. They contacted me to supervise and mentor a web application project that was drifting out of schedule due to “the inexperience of the development team”. My role was first to provide the team with best practices that are likely to lead to success, and second, to develop portions of the project that they could refer to as example code.

JAVA EE SOFTWARE ARCHITECT

- Consulted with Altran Technologies and **supervised a team of 4 developers** on a green project (an HTML5 Web application using Google Web Toolkit) for Volkswagen Group France. Project conducted following a Scrum methodology.
- **Defined coding standards and counselled on development practices.**
- **Defined the architecture and implemented examples of core web services.**
- Performed preliminary studies prior to making technical choices by selecting appropriate tools. Topics: user interface, security issues, data transfer and persistence, and continuous build processes.

- Submitted tool/framework recommendations to the stakeholders and decision makers.

Java EE, GWT, GXT, Java Persistence API, EJB3, SOA, SOAP, agile methodology (Scrum), Eclipse.

September 2011 – August 2013

Kurenai Studio – Belfort area, France

Kurenai Studio was a startup company that I founded on a technically ambitious project but that did not meet its market, due to running out of capital and to marketing efforts not coming in early enough in the process. The company was incubated in a public regional incubator in eastern France.

SOFTWARE ARCHITECT & PROJECT MANAGER

- **Coordinated and managed** a startup company that aimed at creating an open and collaborative software platform for music notation (standard notation, tablatures, etc.) that was intended to be compatible with existing programs such as Finale, Sibelius, Mozart, MuseScore and others. This **start-up company** was a co-winner of the *Carrefour des Possibles* 2012 award.
- **Supervised a 6-person team (3 developers)** using an agile methodology (FDD). Wrote the Work Breakdown Structure. Conducted planning games, stand-up meetings and demo sessions. **Designed and implemented algorithms**, made technical choices with respect to software components and frameworks, **specified APIs, defined the development requirements and processes**, and performed a **technology watch**.
- **Designed and implemented an algorithm** to convert any standard notation score for guitar into tablatures annotated with full fingering for both hands.

C++, Boost, STL, wxWidgets, MusicXML, TDD with CUTE, PHP, jQuery, MantisBT, agile FDD methodology, Eclipse CDT+PDT+JSDT.

September 2010 – August 2011

Amaris – Belfort, France

Amaris is an international consulting firm (2500+ employees in 2016, ~400 in 2010) that provides human resources and expertise to its clients. In the case of software projects, the employees are integrated as software engineers into the client's teams for the length of the project, or, in the case of maintenance contracts, up until the end of the contract.

CONSULTING SOFTWARE ENGINEER

Consulted at PSA Peugeot Citroën's head office in Sochaux, France, in successively 3 teams of the QOV (*Qualité opérationnelle des véhicules* – vehicle operational quality) business unit on Web applications.

- **Entirely designed and developed a server-side application** for monitoring the scheduled Business Objects reports that provide business intelligence about quality measurements.
- **Designed and implemented functional changes** in a program that keeps track of all parts of all vehicles in use, as well as in the corresponding Web application, which is also used by the police and *gendarmerie* to track stolen vehicles based on spare parts.
- Took part in a technological platform migration (AIX/PowerPC/Oracle 9 → Unix/x86/Oracle 11/UTF-8) and **helped optimize database accesses** for the Web interface to an application that manages the quality of manufacturing processes. **Analyzed and rewrote highly demanding SQL queries**, hence **restoring comfortable access times** for the 1,400 users.

Java EE, WebSphere AS, JIRA, Spring, Hibernate, Maven, Ant, JAXB, TDD with JUnit, agile methodology, Eclipse.

October 2008 – August 2010

BlueXML – Nantes, France

BlueXML is a small (20 employees) software publisher whose main product is a software suite consisting of three integrated components based on a Model-Driven Development paradigm. The suite was sold to various clients, mainly institutional ones (tourism offices, municipalities, consulting firms...).

SOFTWARE ENGINEER IN THE R&D DEPARTMENT & PROJECT LEADER

BlueXML publishes a Web-based MDA (Model Driven Architecture) document management software

suite based on Liferay, an enterprise portal product, and on Alfresco, an ECM (Enterprise Content Management) software platform. I was responsible for the XForms element of the software suite.

- **Refactored, maintained and enhanced** the XForms software by implementing non-regression tests and by designing, developing and testing new features on all three (server, client and form compiler) components of the XForms software.
- **Managed the XForms project in a Scrum-inspired methodology**, including setting milestones, planning and delivering custom features per clients' requests, supervising a 3-person team, coordinating with other teams, and reporting to the CTO.
- **Built Liferay portlets for the integration** of customized JS widgets and of business-specific Alfresco document portlets, following the JSR-286 Portlet specification.
- **Acted as a software architect** by defining APIs for interacting with the jBPM Workflow component among others, evaluating and selecting software modules, and writing end-user and developer documentation. **Defined and implemented REST protocols** for client-server communication via webscripts and web services.

Java EE, JavaScript toolkits (YUI, Dojo, jQuery...), Spring, Hibernate, EJB3, REST web services, Alfresco, Liferay, Hudson, JUnit, Selenium, MySQL, Bugzilla, Eclipse.

October 2004 – September 2008

LINA – Nantes, France

RESEARCH AND DEVELOPMENT ENGINEER

In the computer science laboratory of Nantes (LINA – *Laboratoire d'informatique de Nantes Atlantique*), I was the software engineer in charge on project MD-33 *Accès personnalisé aux masses de données* (personalized access to data clusters) of the ANR (the national research agency). The project involved six research labs including the LINA.

- **Designed and implemented a custom indexing technique** for PostgreSQL 8.2, the research results and the final prototype, all dealing with searching databases using natural language and fuzzy sets theory.
- **Took part in all steering meetings.**

Windows systems, C++, Borland C++, STL, OWL (Qt-like library), PostgreSQL & Firebird databases.

2002 – 2008

Computer Science Department – Université de Nantes, France

TEACHING ASSISTANT

Taught computer science labs, including supervising buzz sessions, to 35 groups (around 1,000 students in total) up to Master's degree levels. The list of courses, mainly programming (C/C++, Java, algorithms) and databases (design, normalization, SQL), is available upon request.

EDUCATION

- 2007** PhD in Computer Science. Field of study: *"Database indexing and search optimization"*.
"Databases and information retrieval" research group.
Université de Nantes, France.
- 2003** Master's degree in Computer Science – Université de Nantes.
- 2001** Bachelor's degree in Computer Science – Université de Nantes.

LANGUAGES

French: native language

- Freelance editor for the premier IT book publisher in the French-speaking world.

English: working knowledge (professional English to French translator since November 2011).

Portuguese: ~B1 level (~level 3 out of 6), self-taught.