

Hicham BAKIR

Software engineer & architect

LinkedIn: <http://ch.linkedin.com/in/hichambakir/>

GitHub : <https://github.com/hbakir>

Swiss citizen

Avenue du Grey 3 CH-1004, Lausanne, Suisse

+41 78 648 04 87, hicham@bakir.io

PROFILE

Versatile IT professional, software engineer, architect, and application developer. My extensive experience allows me to adapt to various contexts (legacy code, greenfield projects, frontend, backend, on-premise, SaaS, ...) and different teams and stakeholders (users, business analysts, developers, system admins, DevOps, ...).

Aligned with the latest sociotechnical practices (lean, team topologies, flow engineering, ...), I strive to enhance development team performance by sharing tools and organizational knowledge gathered over more than 10 years.

For several years, I have been conducting teaching or consulting workshops to help teams acquire new knowledge and tools (continuous improvement, cognitive load management, inefficiency elimination, ...), or to address specific problems (analysis, diagnosis, action plan, ...).

KEY SKILLS

- Proficient in providing quality services, assistance and information promptly and competently.
- Keen analytical mind, systematic diagnostician, trouble-shooter and problem solver with an eye for detail.
- Excellent written and verbal communication, with the ability to explain complex information.
- Proactive and supportive team player.
- Structured approach, with acknowledged skills for time management, organisation and prioritisation.
- Adept at working under pressure to meet deadlines.

Skills:

Platforms: JVM, Node, Docker, Kubernetes, JEE applications servers.

Frameworks/APIs: Spring, Spring Boot, Camel, Angular, React, Dojo, JSF, Ionic, Hibernate, REST, JPA, JMS, SOAP, Portlet, EJB.

Languages: Java, JavaScript, TypeScript, Groovy, Python, R, C++, Ruby, HTML, CSS, Tailwind.

Development tools: IntelliJ IDEA, WebStorm, Eclipse, Sublime Text, Spax EA.

Testing tools: Cypress, Spock, Geb, Selenium, Intern, Mountebanks, Cucumber, JBehave, Mockito, PowerMock, JUnit.

ALM & CI/CD: GitHub, GitLab, git, Gradle, Maven, Jenkins, Node/NPM, Vagrant, Ansible, Artifactory, Nexus.

Databases: Postgres, Oracle, Mongo DB, DB2, MySQL and MS SQL Server.

Cloud platforms: Amazon AWS, Heroku, Vercel.

Methods: Lean/Kanban, Agile/Scrum, DDD, BDD, TDD, Wardley maps, Strategyzer, OMT/UML, OVID.

Languages: Fluent in **English** and **French** (native language) with basic skills in **German** and **Swedish**.

PROFESSIONAL QUALIFICATIONS AND CERTIFICATION

1991 – 1994	Master's degree in information systems and software engineering	E.P.I.T.A., Paris
1989 – 1990	Math sup (advanced mathematics)	Lycée Chaptal, Paris
1988 – 1989	Baccalauréat C (mathematics) with honours (equivalent to A Level)	Lycée Chaptal, Paris

Certification:

2015 MongoDB Certified Developer, Associate Level. Certificate number 477-581-633

2010 IBM Certified Application Developer in Workplace Web Content Management 6

In-house training:

Apr. 2022	Foundations of Modern Finance II (MITx 415.2)	MITx
Jan. 2021	Foundations of Modern Finance I (MITx 415.1)	MITx
May 2015	The Analytics Edge 15.071x (data analytics with R and Excel)	MITx
Oct. 2014	Computational Investing Part I	Georgia Tech MOOC
Avr. 2013	Stat 2.1x (Descriptive Statistics) & Stat 2.2x (Probability)	BerkeleyX
Déc. 2012	Software as a Service CS169.1x & CS169.2x	BerkeleyX

WORK EXPERIENCE

Since Sep. 2024	Freelance Software engineer and architect	Bakir In & Out, Lausanne, Suisse
	Software engineering and architecture, consulting, workshops and fixed engagement projects. <i>Lean, Java, Spring Boot, React Remix, Kubernetes, Serverless, AWS, GitHub, Cypress, Spock</i>	
2022	Software engineer and architect	Komgo SA, Genève, Suisse
	Professional Services team member, in charge of customers back-offices system integration. <i>Java, Spring Boot, React, Spring Integration, REST, Docker, Kubernetes, AWS, GitLab, Spock</i>	
2016 - 2022	Solution architect	DGNSI de l'État de Vaud, Renens, Switzerland
	Solution architect dedicated to IT investments for multiple government domains including population security, justice and health. Working on a wide range of missions, from high level project initialisation, non-functional requirements elicitation, implementation strategy to hands on implementation. <i>Java, Spring, Angular, REST, JMS, Oracle, Git, Maven, NPM, Geb, Spock, Intern, Docker, OpenShift.</i>	
2009 – 2016	Freelance Java EE developer and web portal specialist	multiple customer sites in Europe
Key responsibilities:		
<ul style="list-style-type: none"> • Development of multiple software solutions, full stack implementation from user interactions to data persistence. • Technical assistance and consulting on development, architecture, project management, tools and processes. • Liaising with clients to establish requirements, assessing needs and providing estimates and feasibility studies. • Collecting feedback from clients to ensure continuous improvement and a quality service. 		
Key projects:		
Jun. 2015 – Nov. 2015	Office Cantonal des Assurances Sociales Genève, Switzerland	Designer and developer of the e-Services portal. Technical foundation and implementation. <i>Java EE 6, Dojo, EJB, REST, SOAP, PostgreSQL, Git, Maven, Grunt, Geb, Spock, Intern, Vagrant, Ansible</i>
Sep. 2014 – Jun. 2015	SGS S.A., Switzerland	Technical leader & developer on a SOA platform, with multithreading, streaming and linked data. <i>Java EE, Weblogic, Oracle CRMoD, SOAP, REST, Dojo, JavaScript, Maven, RDF, Jena, Eclipse, Git, OS X</i>
Apr. 2014 – Sep. 2014	Lombard Odier & Cie S.A., Switzerland	Java EE developer on document generation and printing solutions for private banking. <i>Java EE, Jboss, EJB 3.0, Corba, Web Services, JPA, Maven, Hudson, Nexus, SOAP UI, Eclipse, SVN</i>
Oct. 2013 – Mar. 2014	Wolters Kluwer Financial Services, FRSGlobal, Switzerland	GUI/Web front-end Java and JavaScript developer on RiskPro, a financial risk management solution. <i>ExtJS 3.x, Grunt, Java, Hibernate, Maven, JBehave, Selenium, Team City, Nexus, SOAP UI, IntelliJ IDEA</i>
May 2011 – Aug. 2013	Scania CV AB, Technical Centre and Scania IT, Sweden	Software architect, technical leader and developer of business applications and JEE internet portals. <i>WebSphere Portal 8, WAS 8.5, JavaScript, Dojo 1.8 & 1.7, REST/JAX-RS, EJB 3, JSF 2, SOAP/JAX-WS</i>
Feb. 2011 – Apr. 2011	Bedag Informatique SA, Centre de Compétences de Lausanne, Switzerland	Implementation of a collaboration portal for an inter-state community of teachers. <i>Liferay 5.2.3 EE, JSF, Icefaces 1.8.2, SOAP, CXF, Hibernate, Spring, MySQL, Tomcat</i>
Nov. 2010 – Feb. 2011	Etat de Vaud, HR and Finance Department, Switzerland	Development of a full stack inventory application with end users direct collaboration. <i>JSF, Icefaces 1.8.2, JPA, Hibernate, Spring, MySQL, Tomcat</i>
Aug. 2010 – Nov. 2010	Fédération des Entreprises Romandes Genève, Switzerland	Implementation of a corporate portal for the CIEPP Institution, with advanced publication process. <i>WebSphere Portal 6.1.5, JavaScript, Dojo 1.6, WCM 6.1.5, HTML, CSS, WAS 7.0, RSA 7.0, ClearCase, DB2</i>
Feb. 2010 – Jun. 2010	Société Nationale des Chemins de fer Français, France	Architect and developer for the intranet, integration, content, security, social networks, processes <i>WebSphere Portal 6.1.5, JavaScript, Dojo 1.6, WCM 6.1.5, HTML, CSS, Eclipse WTP, Maven, Ant, Oracle</i>
Jan. 2010 – Feb. 2010	IRIS Financial Services SA, Luxembourg	Bug fixing and features implementation for the Luxembourg's chamber of deputies. <i>WebSphere Portal 6.0, JavaScript, Dojo 1.5, Lotus WCM, HTML, CSS</i>
Jul. 2009 – Aug. -2009	City of Lausanne, Switzerland	Implementation of REST backend services for a business application. <i>REST, Hibernate, Spring, Oracle</i>

Mar. 2009 – Oct. 2009	Bedag Informatique SA, Switzerland Technical assistance and software architecture for a public internet government application <i>Liferay 5.2, Icefaces 1.7.x, JSF, Hibernate, MySql, Eclipse and Maven</i>	
2008 – 2009	Software architect	Crédit Agricole Suisse SA, Lausanne, Switzerland
Key responsibilities:		
<ul style="list-style-type: none"> • Migration of modules of a Cobol/IDEAL/Datacomm system to a Java GWT/Spring/Hibernate solution. • Analysis of the existing application to identify the main code patterns and industrialize their migration. 		
Key project: Migration of the accounting module. <i>Java EE, Spring, GWT, JBoss AS, Hibernate, IDEAL Datacom, Eclipse WTP, Maven, Jira and Bamboo</i>		
2007 – 2008	Java EE senior consultant	Cambridge Technology Partners, Geneva, Switzerland
Key responsibilities:		
<ul style="list-style-type: none"> • Development of new features and restructuration of legacy applications. • Conducted feasibility studies and implemented prototypes. • Consultancy on software architecture, solutions evaluation, contextual analysis, functional coverage and migration scenario. 		
Key projects:		
Apr. 2008 – Aug. 2008	City of Lausanne Implementation of a public services application with refactoring of the legacy code. <i>Java EE, Spring, Struts, JBoss AS, Oracle</i>	
Oct. 2007 – Mar. 2008	Orange SA, Bussigny Implemented a portal prototype to consolidate multiple internet sites. <i>Java EE, JSP, Ajax, JavaScript, HTML, CSS, Apache HTTP server, BEA Weblogic server and Oracle</i>	
Jun. 2007 – Sep. 2007	Sunrise Communications AG, Zurich Developer in charge of the user Interactions layer of a new online shop. <i>JBoss, Spring MVC, Hibernate, Freemarker</i>	
Jan. 2007 – May 2007	Fédérations des Entreprises Romandes Genève Implementation of the CIAM AVS web portal with content management and transactional services. <i>Websphere Portal 6, WAS 6, Struts, EJB 2, JavaScript, Dojo 1.5, HTML, CSS, RSA 7, IBM WCM, Clearcase</i>	
2004 – 2006	Team manager, architect and senior developer	CALYON, Capital Markets, France
Key responsibilities:		
<ul style="list-style-type: none"> • Development of a capital markets research portal for analysts research data, incorporating access authentication, personalisation, search engine facility, web content management with taxonomies and subscriptions. • Implementation of corporate web sites for equity derivatives. • Led a team of six in the delivery of a range of internet platforms for capital markets, including warrants, equity derivatives, and structured products. 		
Key project: Development of the capital markets research portal, from inception to implementation and roll out. <i>Websphere Portal 5.1, WAS 6, RAD 6. IBM Workplace WCM, Hibernate, Struts, Spring, Maven, Tivoli Directory Server, Oracle 9i, Jasper, JSR-168 portlets, HTML, CSS, JavaScript, Ajax, DWR, XML/XSLT</i>		
2001 – 2004	J2EE architect and developer for the front-office	Crédit Agricole Indosuez, EMC/PFT, France
Key responsibilities:		
<ul style="list-style-type: none"> • Implemented frameworks through collaboration with both developers and infrastructure teams. • Implemented multiple financial applications based on Java/J2EE with Reuters SFC, Tibco RV and MQ Series APIs. • Managed the “straight through processing” rationalisation of business data flow. 		
Key project: Implementation of a real time messaging framework. Management of the straight through processing. <i>Java, JSP/Servlets, EJB, JMS, Reuters SFC 3.3, TIBCO RV and MQ Series, Castor XML and JDO, Visual Age Java, Rational Rose, Websphere AS 3.5 & 4., JBoss, Oracle, Sybase, DB2, Solaris, NT</i>		
2000 – 2001	Junior J2EE architect and developer	Generali France Assurances, SAD/CSE, France
1999 – 2000	C++ developer of a global tracking system	Chronopost International DSI, France
1999 – 1999	C++ developer of financial and risk applications	BNP, Direction Centrale des Risques, France
1996 – 1998	C++/Delphi developer for exotic derivatives	Société Générale, Equity Derivatives, France