

Gabriel Klein Mellette 2 CH-1081 Montpreveyres gabriel.klein@nuage.ch (+41 77'405'21'90) 34 y.o. – one child – Swiss and French nationality	EPFL, Master in Communications Systems (ing.sys.com.dipl.EPFL) Software Architect Version : 28th of July 2011 Updates : http://go.nuage.ch/cv
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Why me?

I have actively participated in the creation of two Swiss Startups. These companies have received many awards (CTI, TechCrunch Europe, Strategis, Swiss Technology Award, AlpicT, IMD Startup Competition, ...).

With transversal skills, dealing with software architecture, software implementation, coaching people from many different cultures, setting process when necessary, I have the tools to suggest the most pertinent solution.

My excellent technological knowledge and creativity give me a broad view on new potential improvements and developments of the product. I have an open-source, agile and pragmatic approach of building software.

Professional Experience

Poken (Juin 2008 – Juillet 2011, 3 ans) : Chief Software Architect

With this company, we have created an event oriented products and software that facilitate the interaction between people. This panel of solutions mixes social networks, mobiles, hardware development and integration of these different components.

I was responsible of the IT department (shared responsibility), my duty was to put the architecture in place, the core, an agile methodology of development, coaching of the Software team, have a process in place to create, extend and maintain the “Poken” product. Poken was a continuation of my master project and I have actively participated in the development of the product at all levels: Vision, product, execution, architecture and running production.

Methodology : Agile cycles. (Environments of dev/stage/branch, SVN, Hudson, Ant, virtual instances, database transfer and backups, JUnit).

Server: Physical infrastructure, then moved to a “cloud computing” approach (Amazon Web Services).

Linux/Debian. Load Balancing, Content Delivery Networks, monitoring.

Servers: Glassfish 3, J2EE, MySql 5, EJB, JPA, PHP, JSF

API : Jersey, OAuth, OAuth2, REST, XML et JSON, JUnit

Mobile : Android development, coaching for the development on iPhone and Nokia (native / html 5)

Social Networks : Development and architecture using Facebook and Twitter.

Databases : MySQL, administration, development and backups.

Documentation : Technical documentation for investors (due diligence) and architecture documentation.

Team : Coaching and Leadership of the software team to have a nice and productive working environment.

Managed the need and wishes of a team from many different origins.

Cryptography : Chosen and implemented the encryption algorithms, code signature and certificates management (HTTPS/SSL, code signing).

Hardware : Understand the advantages and limitations, personal interest (Home Automation, Internet of Things)

AdsClick (December 2004 – May 2008, 3.5 years) : Software Architect

Start-up similar to Google AdWords and AdSense, active in the on-line advertisement domain..

Architect and developer of the ad serving server, developed the algorithms that choose the correct ad, interaction with external services (API), high availability and distributed architecture. Management and fraud detection.

Developed in Javascript and HTML. Development and architecture of the statistic engine that is able to handle multiple gigabytes of logs per hours. Participated with my ideas to the development of the product. Development on top of **Tomcat**, **Java**, **MySql**, **Javascript**, **HTML**, System administrator **Linux** (Debian).

Epsic (2004 à 2008, 20%) : Taught topics about IT development, management and computer systems.
Sunrise (Mars-September 2003) : Developments in **Java**, Oracle, .net
Fabric | CH (November 1998 to June 2000, 20%) : Development of Internet sites and C++ programming
EPFL, Student-Assistant : Development of Internet sites, applications in C++ mixing art and technology.
Independent : Development of Internet websites, helping people in the domain of computer science

Technical Knowledge

Leadership, Management : Development of managerial skills with a coach, reading (Crisis management, leadership), management of a distributed team.

Methodology: Agile methodology (Like « Scrum »), UML/vision, human interaction, tracking tools (Jira et Trac), versioning (SVN/SubVersion, CVS), Unit tests (J-Unit 4, Selenium), automatic deployments (Ant, Hudson and deploy-on-commit).

Systems Administration : Linux servers (Debian), clouds computing (Amazon Web Services, EC2), high availability (Load Balancer, Content Delivery Networks), site monitoring (Watchmouse), SSL certificates management and installation, code signature. Security strategies and backups.

Core Technologies, J2EE : J2EE 5 et 6, EJB 3, JPA (like hibernate), applications servers in Java (Glassfish 3 et Tomcat), API (Jersey, REST, XML et JSON)

Social networks : Building on top of Facebook (Graph Object, OAuth, OAuth2), good knowledge of advantages and limitations of other API.

Mobile developments : Android application deployment, these applications are available on the market. Experience with the different way to develop a mobile application (Nokia, Android, iPhone – Native versus HTML 5). Very good knowledge of the NFC protocol, QR-Codes.

Web Technologies : HTML 4/5, CSS, Javascript (jQuery), PHP 5

Security : Knowledge and use of basic algorithms. (MD5/SHA1, Public Key, Certificats, XXTEA)

Databases : Expertise in MySQL 5, some knowledge of NoSQL databases (MongoDB et Neo4J)

Hardware : Good knowledge of the limitations and advantages of the Hardware, and how this hardware is integrated in a web environment. Development in C, flashing, error tracking. Personal interest (Home automation, Internet of Things, ZigBee)

Advertising : Excellent knowledge of distribution and optimization of ads on social networks and Internet. (CPC, CPM, social marketing, viral marketing)

Software : Google Apps, « clouds » services, installation and administration of open-source projects

Professional Experience

ing.sys.com.dipl.EPFL (2004) : Master in Communications Systems

Certificat de maturité (1997) : Bac ès Sciences (High School Diploma)

Leadership & Management (2011) : Training with a coach, read a lot of books

Language

French : Mother tongue

English : Fluent, daily usage in a multicultural English-Speaking team

German : Basic knowledge

Leisures, activities and communities

Music: I play trumpet in a local band.

Sport : Swimming

Communities : Fire brigade (SDIS), JUGL (Java User Group Lausanne)