

Gabriel Serme

Software Engineer

Sophia-Antipolis, France




+336 66 99 35 42

gabriel@serme.net

<http://gabriel.serme.net>

Age : 26, French

Work Experience

- 2009–2012  **Research Associate**, SAP Labs France, Sophia Antipolis, France.
(3 years) Project: CESSA, Secure service applications with aspect-oriented programming
Research challenges: Cloud and SOA security, business process management, policy definition and enforcement
Bilan: Analytical minds, rigorous in development (requirements, architecture design, implementation, test, deployment), security mindset, writing skills through numerous deliverables, scientific publications and patents, interns supervision, project management involvement, international environment, team spirit and partner collaboration, agile development.
- 2008–2009  **Research Engineer**, SAP Labs France, Sophia Antipolis, France.
(1 year) Master thesis on software engineering, web-service mashup and mobility
Web Services, RESTful services and Web-Object mashups for optimized mobile service consumption
Bilan: developer in team, international collaboration, fast and efficient prototyping, industrial research and development environment, j2ee and service-oriented architecture
- 2006  **Internship**, INRA Avignon, Avignon.
(10 weeks) Development of web services for remote access to a tree-growth mathematics simulation

Skills

The list is not exhaustive, but provides knowledge developed during my industrial experiences:

Programming: Java with strong focus on J2EE , C++ , C, Python, ABAP (BC401 training), shell scripts

Modeling: BPMN, Design Patterns, UML






Security: Identity management, Risk analysis, Threat Modeling, Web-Services and Cloud Security, Secure Programming (buffer overflow, injection attacks, fuzz), Forensics

Distributed: Service Oriented Architecture, REST, Cloud computing technologies

Platforms: Apache2, Tomcat, JBoss, SAP Netweaver Cloud, Eclipse (plug-in developments)

Databases: MySQL , MongoDB, PostgreSQL

Education & Projects

- 2009–2012  **Eurecom Institute**, Sophia-Antipolis, France.
Courses for doctorate degree part of Telecom Paris-Tech doctoral school. Several courses and projects around security: Secure Communications, Operational Network Security, Secure Programming in conjunction with <http://iseclab.org>
- 2008–2009  **IAE Nice (MBA in General Management)**, Sophia-Antipolis, France.
Master Degree in Management and Business, building a double competency profile oriented to project management and business
- 2006–2009  **Polytech'Nice-Sophia (Graduate Engineering School)**, Sophia-Antipolis, France.
Master Degree and Engineering Diploma in Computer Science with honors. Part time at SAP Research alternating with study during final year.
Speciality: *Mobile and ubiquitous computing* : Embedded Systems, Smart Objects, Middleware for ubiquitous computing, SOA Architecture, Management
- 2004–2006  **Institut Universitaire de Technologie (IUT)**, Aix-en-Provence, France.
Obtained a two years degree (DUT) in Computer Science with honors (Graduated rank 2/90)
- 2004  **Lycée René Char, Baccalauréat**, Avignon, France.
Baccalaureate "S" (Scientific subjects, equivalent to "A" Levels)
3rd prize of *Les Olympiades de physiques* : Scientific experimentation of wind turbines in self-made wind tunnel, Paris, 2004

Languages



: native speaker



: fluent. 4 years in English speaking environment



: good read, fair write and speak

Personal interests

Member of a Rugby team, Squash player, and Mountain Biking.

Participation to local business environment and technical events: Telecom Valley, Riviera Java User Group, jury at *La nuit de l'info* to represent SAP in 2009, 2010 and 2011.

Participation to several *Capture the Flag* challenges (mozilla ctf, plaidctf, pre-qualification for ndh2012, etc.) in different teams

Monitoring and administration of several servers (Xen virtualization, Debian, Apache2 or Nginx) with own mail server (Virtual postfix)