Antoine Galataud

Senior software engineer with 10 years experience
Specialties: Java and its ecosystem, Scala, functional programming, stream processing, large
scale distributed application design, performance

Experience

Today
Jan. 2015

Senior software engineer at Airboxlab, startup in indoor air quality monitoring
connected devices

- Technical leader of a 4 developers team. Long-term missions relates to architecting
  backend services, such as:
    - Sensor data streaming pipeline for storage, cleanup, enrichment, stats, event
      prediction for 3 million events a day (*Spark Streaming*, *Spark ML*)
    - REST API, developed using a microservices strategy, with API Gateway, dynamic
      documentation, API keys, stateless authentication (*Spray*, *Akka*, *Spring*, *Zuul*,
      Swagger)
    - Continuous deployment pipeline for 3 datacenters, ensuring zero down time,
      using containers and dynamic service discovery (*Docker*, *AWS ECS*, *Consul*,
      Jenkins, *GIT*)
    - Data pumps and aggregation pipeline (*DynamoDB*, *Elasticsearch*, *MySQL* and
      S3)
    - Lightweight pub/sub messaging solution, used internally as well as with
      connected devices and apps (*RabbitMQ*, *MQTT*, *STOMP*)
    - Event-driven integration of IoT services and devices like *IFTTT*, *Nest*, *Amazon
      Alexa*
- Daily missions
    - Services and business requirements analysis, implementation, deployment,
      monitoring, maintenance
    - Key contact for business users, apps developers and external partners on REST
      and Streaming APIs

Jan. 2015
Apr. 2013

Senior software engineer at FircoSoft, financial compliance software editor

- Hired to bootstrap development of new products branch and a SDK shared by 4
  products and 11 developers:
    - Design modules and dependencies, select external APIs
    - Define and create development environment, build artifacts, CI process
    - Structure development around IoC, statelessness and scalability principles
    - Introduce modern concurrency and distributed computing concepts
- Daily missions
    - Services and business requirements analysis and implementation
    - Particular focus on performance, scalability, concurrency
    - Ensure best development practices are used
    - Assist others with regular follow-up and trainings
    - Strengthen automated testing and CI process with QA team

Apr. 2013
Feb. 2012

Technical consultant at Thomson Reuters (Misys), financial software editor

Troubleshooting and follow up of issues or user requests raised by customers based in
EMEA West
Author of monitoring and technical reporting tool, maintained and used by other
consultants
Back office technical specialist, regularly sent abroad to train others or unblock critical
situations
Customer advocate for customers with reference implementations in Europe.

Feb. 2012
Feb. 2010

Technical supporter (3rd level) at Thomson Reuters

Troubleshooting and follow up of technical issues
In charge of 2nd level supporters training

Feb. 2012
Feb. 2006

Software engineer at Thomson Reuters

Technical design and implementation of business modules, mainly for back office
validation, cash management, Swift messages generation, and deals life cycle
management. Introduced Spring and Hibernate in the project

Technical Experience

Key skills	**Design** (from the ground up) and maintenance of **large scale, distributed applications** Strong experience in **near real-time stream processing** Best practices in **performance, concurrency and scalability** aspects **Continuous deployment** pipelines design, **behaviour driven development**
Programming Languages	Strong knowledge of **Java, Scala, SQL** Intermediate skills in Groovy, Python, JavaScript, C++, Shell scripting Basic knowledge in Erlang
Frameworks, Platforms and APIs	Strong knowledge in Spring, Spring Security, Spring MVC, Spark, Quartz Work everyday with cloud services provided by Amazon Web Services Good knowledge of Akka, Spray
Messaging	RabbitMQ, TibcoRDV, MQSeries AMQP, MQTT, STOMP, WebSockets
Containers	Docker, Tomcat, Weblogic
NoSQL	DynamoDB, Elasticsearch
RDBMS	MySQL, Oracle, MS SqlServer, Sybase
IDE, Build, CI OS	Eclipse, Maven, Jenkins, Git, SVN Linux, Solaris, Windows

Education

2003-2006	**Engineer degree**; Institut National des Sciences Appliquées (Rouen - France) *Computer sciences - Information systems architecture*
2001-2003	**2 years CS degree**; IUT II, University Joseph Fourier (Grenoble - France)

Languages

- Spoken and written languages:
  - French (native)
  - English (fluent)

Interests and activities

- Open source: give a hand when possible (contributions to RabbitMQ, Consul (client), Atmosphere)
- Sports: swimming, biking, half-marathon runner
- Music
- Litterature, especially american contemporary writers

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