

# Romain Gallet

SOFTWARE ARCHITECT · DATA ENGINEER

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## CONTRACTS ONLY - LONDON ONLY

Engineering and consultancy services within the media, financial and publishing industries.  
Expertise in high availability B2B and B2C solutions architected around data pipelines and streaming.

## Consulting

### Depop

DATA ENGINEER

London

June 2019 - current

go, kinesis, akka-streams, kafka-streams, kubernetes/helm, airflow, cats, fs2

- Designing streamed redshift upserts with kinesis (kpl, kcl) and akka-streams data processors.
- EKS and Helm application deployment life-cycle management.
- Research and identification of opportunities, developing proposals and recommendations.

### The Guardian

DATA ENGINEER

London

Oct. 2018 - May 2019

kafka, kafka-streams, kubernetes/eks, athena, spark/emr, airflow, cats, fs2

- Implementation of spark etl pipelines on aws emr, processing readers' revenue and subscriptions datasets.
- Designed and built alternative streaming pipelines with aws msk (kafka), eks and kafka-streams.
- Implemented in-memory data streams using http4s and fs2.

### Sainsbury's

DATA ENGINEER

London

Dec. 2017 - Sept 2018

kafka-streams, hbase, spark, schema-registry, aws ecs/ecr, ansible, terraform, circle ci, tdd/bdd

- Architecture and deployment of kafka clusters using terraform and ansible on aws ecs – both apache and cloudera (cdh) versions, kms and kerberos.
- Design and implementation of stateful etls with kafka-streams, kafka-connect, and schema-registry. Data analytics using hive, spark and zep-pelin.
- Implementation of pii- and gdpr-compliant stream processors using data tokenisation and encryption.

### Home Office (HMPO & IPT)

TECHNICAL LEAD - SCALA ENGINEER

London

June 2016 - Nov. 2017

micro-services, rest apis, play, akka-streams, terraform, kubernetes, circle ci, tdd/bdd

- Api contract testing using swagger and gatling. Experimentations with pact. Dockerised integration tests and applications.
- Implementation of resilient data transfer layers atop akka-streams and akka-persistence.

### HMRC (Valuation Office Agency)

TECHNICAL LEAD - SCALA ENGINEER

London

Nov. 2015 - May 2016

play, akka, jquery, gatling, mongodb, docker, micro-services, tdd/bdd

- Design and implementation of an akka wrapper around a legacy web application.
- Delivered a gds-compliant solution that turned a seldom-used service to a country-wide first-choice platform for council tax and business rates collections.

### Home Office (HMPO & Border Force)

SCALA ENGINEER

London

Mars 2014 - Oct. 2015

play, akka, jquery, mongodb, puppet, agile, tdd/bdd

- Design and implementation of a flight arrivals prediction engine. Resiliency and recovery procedures using akka and rabbitmq.
- Implemented akka-clustered clients to legacy apis with flow management (nagle-like) and exactly-once delivery semantics (passport applications).

### Capco

FULL STACK JEE ENGINEER

London

Mars 2014 - Oct. 2015

agile, tdd (mockito), hibernate, spring, ec2, angularjs, git, jenkins

- Development of a change management tracking system for banks and financial institutions. Implemented continuous integration life cycle. Designed backup, restore and disaster recovery procedures.

### News UK (News International)

FULL STACK JEE/GRAILS ENGINEER

London

Nov. 2012 - June 2013

agile, tdd (gmock), bdd (spock), grails, spring, jquery, dynamodb/rds/cloudwatch, gradle

- Implementation of federated registration and authentication with social media integration (openid, oauth).

### blow. HappyInc Ltd (now Blow Ltd)

FULL STACK JEE/GRAILS ENGINEER

London

Jul. 2012-Sept. 2012

agile/xp, tdd (gmock, jenkins, jmeter), bdd (geb, selenium), grails, jquery, spring, rackspace cloud

- Implemented full CI deployment life cycle, DR management and DB backup and restore.

## sky BSKyB (Sky Group)

FULL STACK JEE/GRAILS ENGINEER

agile/xp, tdd, grails, jquery, geb/selenium, ha-jdbc

- Built BSKyB's editorial and publishing news platform (cms) and the consumer facing website **news.sky.com**, in grails.

## DMC Digital

SENIOR JEE ENGINEER

spring, spring-batch, spring-security, hibernate, solr, junit/jmock, grails

## ITHR

SENIOR JEE ENGINEER

spring, struts, hibernate, oracle, jboss, fitness

London  
Aug. 2011 - June 2012

London  
Dec 2010 - July 2011

London  
Oct. 2010 - Nov. 2010

## Permanent roles

### TripAdvisor

TECHNICAL LEAD - FULL STACK JEE ENGINEER

php, jse, tdd, agile, seo

London  
June 2008 - Aug. 2010

### SixAndCo (Fullsix group)

TECHNICAL LEAD - FULL STACK JEE ENGINEER

spring, hibernate, lucene, oracle, xml/xslt

London  
Dec. 2006 - Apr. 2008

### VoxMobili (Anéo)

JAVA ENGINEER

spring, hibernate, mysql, sync-ml, jfreechart

Paris  
Sep. 2006 - Nov. 2006

### CapFullsixco

FULL STACK JAVA ENGINEER

tomcat, sun sas, oracle, wap gateways, payment gateways

London  
Aug. 2004 - June 2005

### BoxNewMedia

JUNIOR FULL STACK JAVA ENGINEER

tomcat, jee, xml/xsl

London  
July 2003 - July 2004

### AVS Consulting

JUNIOR FULL STACK JAVA ENGINEER

tomcat, jee, jse, syncml

London  
Mar. 2002 - July 2002

## Education

### HEC & Télécom Paris (ENST)

MASTER IN DIGITAL BUSINESS MANAGEMENT

Paris, France  
2006

### Greenwich University

MASTER IN INTERNET TECHNOLOGY AND E-COMMERCE, 1ST CLASS WITH DISTINCTION

London, UK  
2004

### Université de Picardie Jules Verne

MASTER ISRI (INGÉNIERIE DES SYSTÈMES ET DES RÉSEAUX INFORMATIQUES), 1ST CLASS

Amiens, France  
2003

### Birmingham University

BSC IN COMPUTER SCIENCES / MAÎTRISE D'INFORMATIQUE

Birmingham, UK  
2002

## Certifications

2017 **Functional Programming in Scala**, EPFL École Polytechnique Fédérale de Lausanne

2012 **Oracle Certification for Java Programmer (OCJP)**, Oracle

## Personal projects

### Rentbarometer

RENTBAROMETER.COM

- A data-driven website aiming to restore some fairness and balance in the property rental market in London.

### GeoCalc

GITHUB.COM/GRUMLIMITED/GEOCALC

- Geocalc is a simple java library providing arithmetic tools to manipulate Earth coordinates