



Grum Ltd

SOFTWARE ARCHITECTURE · DATA ENGINEERING

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CONTRACTS ONLY - LONDON ONLY

Engineering and consultancy services within the media, financial and publishing industries.
Grum Ltd provides expertise in high availability architectures around streaming data pipelines.

Consulting

Compare The Market

DATA ENGINEER

London

Jan. 2020 - current

kafka, aws, scala, spark streaming, akka streams, apache nifi, terraform, gocd, data pipelines

- Designing streaming data pipelines with akka streams and spark streaming.
- Terraform, aws code build and gocd infrastructure management.
- Management and migration of kafka clusters to msk. Security and performance guidance and tuning.

Depop

DATA ENGINEER

London

June 2019 - Dec. 2019

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 zepel.
- Implementation of pii- and gdpr-compliant stream processors using data tokenisation and encryption.

Home Office (HMPO & IPT)

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)

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).

HappyInc Ltd (now Blow Ltd)

FULL STACK JEE/GRAILS ENGINEER

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.

London

Jul. 2012 - Sept. 2012

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.

London

Aug. 2011 - June 2012

DMC Digital

SENIOR JEE ENGINEER

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

London

Dec 2010 - July 2011

ITHR

SENIOR JEE ENGINEER

spring, struts, hibernate, oracle, jboss, fitness

London

Oct. 2010 - Nov. 2010

Other professional experience

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

Fullsix

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**,  École Polytechnique Fédérale de Lausanne

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

Other 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