

DAVID ATKINS

SOFTWARE ENGINEER

SECURITY CLEARED/BPSS v3

My 15 years experience as a Java Software Engineer and Team Lead have given me a broad experience of all aspects of the software delivery lifecycle. I am passionate about Software Craftsmanship, Clean Code, Continuous Improvement and above all, delivering quality software!

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WORK EXPERIENCE

SOFTWARE ENGINEER (CONTRACT)

PSR for MOJ Digital

November 2023 - Ongoing

- Developing API Services to support Community Accommodation Services
- Tech: Kotlin, Spring Boot, Spring Data, Postgres, JPA/Hibernate, OpenAPI, Gatling, Kubernetes, Gradle, CircleCI, Github

CAREER BREAK

May 2023 - November 2023

- Midway through my career, my wife and I took the opportunity to travel to various places around the world that we had always wanted to visit.

JAVA DATA ENGINEER (CONTRACT)

Aker Systems for Home Office FDP

October 2022 - May 2023

- Enhancing Microservices that filter, transform, normalise & enrich very large streams of event data using Kafka Streams.
- Key achievements include re-engineering the functional test pack to support parallelised execution, subsequently allowing it to be executed in the CI pipeline using ephemeral docker deployments, and using windowing & state stores to produce complex daily statistics regarding the contents of the events being processed.
- Tech: Kafka, Kafka Streams, Docker/Compose, gRPC, Spring Boot, Maven, Cucumber, DroneCI, HO ACP, Gitlab.

JAVA DATA ENGINEER (CONTRACT)

Aker Systems for FCDO Single Journey

July 2022 - October 2022

- Integrating various producers & consumers using AWS components
- The role included creating high and low level design documents, implementing lambdas, writing automated functional tests and configuring miscellaneous AWS integration services.
- Tech: Lambda (Java/Python), Kafka, Cucumber, API Gateway, App Flow, Gitlab.

KEY TECH

- Java/JDK
- Kotlin
- Spring Boot
- Camel
- JPA/Hibernate/Spring Data
- REST/Swagger/OpenAPI
- TLS/HTTPS/Mutual Auth/OAuth
- Fuse/Karaf/OSGi
- Kafka/Kafka Streams
- JUnit/AssertJ/Hamcrest/Mockito
- Cucumber/Gherkin
- AWS (SQS, DDB, Lambda)
- JMS/ActiveMQ
- RDBMS (Postgres,MySQL)
- Docker/Compose
- HTML/JavaScript/CSS
- SOAP/WSDL/WS-Security
- XML/XSLT/XML Schema
- SOAP/WSDL/WS-Security/CXF
- Git/SVN/RTC/GitLab/Github
- Jenkins/Drone/CircleCI
- Linux/Mac/Bash

EXPERTISE

- Clean Code
- Software Craftsmanship
- Continuous Improvement of Code & Refactoring
- Test-Driven Development
- Automated Functional Testing
- Performance Testing
- Java Optimisation
- Technical & Team Leadership
- High and Low-Level Design
- Requirements Management
- Live Support/Dev-Ops

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WORK EXPERIENCE

SENIOR JAVA DEVELOPER (CONTRACT)

Mastek for Home Office SFM

February 2022 - June 2022

- Implemented a service to find deltas between nightly batches of biometric meta-data pulled from FTPS (GBs of CSVs) and send deltas for downstream processing. I advocated for a pragmatic multi-threaded java-only solution that was fast and used minimal heap space
- Tech: Spring Boot, Camel, SQS, Dynamo DB, Mina FTP Server, Spring Shell, Maven, Localstack, Git & Atlassian Suite.

SENIOR JAVA DEVELOPER (CONTRACT)

Mastek for Home Office SRTP

February 2021 - February 2022

- Enhancing the Biometric Service Gateway to enable sharing of biometric and biographic data with partner countries
- Tech: Spring Boot, ActiveMQ, REST, SOAP, Postgres, OAuth, Spring Shell, Fuse/OSGi, Swagger, Maven, Wiremock, Git & Atlassian.

SENIOR JAVA DEVELOPER (CONTRACT)

Mastek for Home Office DNADB

September 2018 - January 2021

- Re-write of the National DNA Database.
- A key achievement was writing a highly response service that collects matching DNA samples into 'Match Groups' (i.e. complete graphs of matching and almost matching samples).
- Tech: Spring Boot, ActiveMQ, Hibernate/JPA, Spring Data, REST, Activiti, Graph4J, Maven, Postgres, Docker, Git & Atlassian

JAVA TECHNICAL LEAD (PERMANENT)

Atos Nottingham

2010 - 2018

- Requirements Analysis, Architecture, High & Low Level Design and leading teams of up to 8 developers and testers on several projects, including:
- OPTICA is a web-based workflow used by Police Forces to manage requests for Communications Data under the IPA. I led several enhancements, including re-platforming, external services integrations, workflow updates and a technical refresh from JEE5/Seam to JEE7/CDI. Tech: JBoss EAP, JSF/Facelets, JPA/Hibernate, Cucumber, Seam, CDI, Camel, Swagger, Spring, MySQL Enterprise, Chef, Vagrant, Elasticsearch, Maven, RTC
- The IVACS/IDSC projects delivered a Shared Service Bus (SSB) to enable integration between the Home Office and Partner Countries. Tech: Fuse (OSGi, Camel, CXF, ActiveMQ), XLST, SOAP (WS-Addressing, WS-Security, XOP/MTOM), Oracle RDBMS, Maven.

EDUCATION

1st BSc (Hons) Computer Science

Loughborough University

Computer Science A-Level (A)

Business A-Level (A)

Mathematics A-Level (B)

BCS Practitioner in Enterprise & Solution Architecture (2014)

SCJP Java 7 (2011)

OTHER WORK EXPERIENCE

Senior Java Dev (Contract)

Staircase13 / '19 - ongoing

Developing API Services to support management of NHS patient 'PROMS'. Part-time contract.

Systems Analyst Developer

Prolog / '08 - '10

Developing E-Commerce Software for Logistics Company

Research Assistant

Loughborough University / '06 - '08

Department of Electronic and Electrical Engineering

Visualisation and GIS tooling for analysis of outputs from Air Traffic Control simulation

Research Assistant

Loughborough University / '03 - '06

Department of Computer Science

Software Support for Research into Smart Home Technology and DAB