

Khalid Chaudhry

Developer Team Lead | Java / Spring Boot / AWS | Public Sector Digital Services

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Profile

Developer Team Lead / Engineering Lead with over 24 years' experience delivering **Java, Spring Boot, RESTful API, microservices** and **service-oriented architecture** solutions across public-sector, financial-services and digital transformation environments. Also brings practical exposure to **AI-assisted** and **agentic engineering workflows**, applying **AI tooling** to improve requirements analysis, technical design support, test thinking, documentation, knowledge transfer and delivery productivity. Recent public-facing government service delivery experience at DVLA, working with **Java/Spring Boot APIs, AWS, Docker, Drone CI/CD, JavaScript, PostgreSQL, Redis, TDD/BDD** and **GOV.UK-style** customer journeys. Proven ability to provide technical leadership, mentor junior developers, transfer knowledge, support **Agile** teams and turn complex stakeholder requirements into secure, resilient, production-ready services. Also brings practical exposure to AI-assisted and agentic engineering workflows, applying AI tooling to improve requirements analysis, technical design support, test thinking, documentation, knowledge transfer and delivery productivity.

Key Strengths

- **Developer team leadership:** Experienced leading, coaching and mentoring engineering teams, including line management, technical training and knowledge transfer to junior and graduate developers.
- Also brings practical exposure to **AI-assisted** and agentic engineering workflows. **Applying AI tooling** to improve requirements analysis, technical design support, test thinking and documentation.
- **Java, Spring Boot microservices:** Strong hands-on background designing, building and modernising **Java/Spring Boot RESTful APIs** and **microservices** across public-sector, financial-services and digital transformation environments.
- **Public-sector digital delivery:** Recent DVLA Clean Air Zone experience delivering public-facing customer journeys, payment/account **APIs**, service integration changes and **GOV.UK-style** patterns.
- **AWS and cloud delivery:** Practical **AWS** delivery experience on DVLA services, supported by broader cloud/platform experience across **Azure, Terraform CI/CD, Kubernetes, OpenShift, Docker** and **API integration**.
- **TDD and unit testing:** Strong advocate of **TDD, BDD, JUnit, Cucumber/Gherkin, RSpec, REST Assured, automated testing, clean code** and **continuous integration**.
- **JavaScript and UI journey support:** Familiar with **JavaScript** and front-end journey changes in public-facing services, including **UI route contracts**, page patterns and **request/BDD** test coverage.
- **Secure, resilient service delivery:** Experienced improving error handling, operational logging, release discipline and production readiness across regulated and public-facing services.

Technical Skills

Core Engineering: Java 8-21, Spring Boot, RESTful APIs, microservices, SOA, JPA, Hibernate, SQL, PL/SQL, XML, JSON, YAML
AWS / Cloud / DevOps: AWS, Docker, Drone CI/CD, Azure CI/CD YAML pipelines, Kubernetes, OpenShift, Git, Jenkins, Maven, Gradle, Postman, Splunk

AI / Agentic Engineering: AI-assisted engineering workflows, agentic AI, Amazon Bedrock AgentCore, AgentCore Runtime, Memory, Observability, Identity, Gateways and Policies, LangChain, LangGraph, AI agent development and deployment, Hugging Face, Groq, AWS CLI

Testing / Quality: TDD, BDD, JUnit, Cucumber/Gherkin, RSpec, REST Assured, Selenium, EasyMock, PowerMock, automated testing, clean code

UI: JavaScript, HAML, JQuery, JSP, GOV.UK-style page patterns, route contracts, request/BDD test coverage

Architecture & Integration: RESTful service design, SOA, API integration, Apache Camel, Mule ESB, WSDL/SOAP, UML, data modelling, design patterns

Databases: PostgreSQL, AuroraDB, Redis, MySQL, Oracle, IBM DB2, Sybase, MS SQL Server, JDBC, stored procedures

Operating Systems: Linux, Solaris, Windows, Mainframe TSO

Career History

Mercor | Senior Software Engineer, Frontier AI Lab (contract) | June 2026 - July 2026

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- Spearheaded a short-term engagement in senior software engineering, focusing on **Java architecture** and **COBOL-to-Java** modernisation.
- Reviewed AI-generated code and software outputs, providing feedback against senior engineering standards.
- Delivered comprehensive technical feedback and design guidance to bolster implementation quality and support independent reviews.

DVLA — Senior Software Engineer (contract) | March 2026 - June 2026

- Delivered public-facing digital service changes across DVLA Clean Air Zone services, working on **Java/Spring Boot APIs** and **Ruby on Rails** applications supporting payments, accounts and vehicle-management journeys.
- Built and enhanced **RESTful APIs**, service-integration flows, resilient error handling, UI journey changes, automated tests and **CI/CD** delivery within a public-sector **Agile** environment.
- Worked with **AWS, Docker, Drone CI/CD, PostgreSQL, Redis, JavaScript, Maven, JUnit, RSpec** and **Cucumber/Gherkin** to support reliable delivery of customer-facing services.
- Improved direct-debit/payment failure handling so downstream service failures were treated consistently as server-side errors, logged for operational visibility and surfaced through the appropriate service-unavailable user journey.
- Contributed to the redesigned Personal Accounts “Your vehicles and charges” journey, including Clean Air Zone charge viewing, vehicle-management actions, **route contracts, GOV.UK-style page patterns** and **BDD/request-test coverage**.
- Applied **TDD/BDD** and **unit/integration testing** practices to ensure service changes were reliable, maintainable and supported by appropriate automated test coverage.
- Worked with delivery, testing and product stakeholders to turn public-service requirements into working, production-ready functionality.

Specsavers — Senior Software Engineer (contract) | February 2025 - February 2026

- Used **AI-assisted engineering workflows** to support delivery within a **cloud-native Java/Spring Boot environment**, including **code comprehension, test-case thinking, documentation support, API/change analysis** and productivity improvements across **Agile delivery** activities.
- Designed and developed **agentic CI/CD delivery workflows**, using **AI-driven automation** to support software **build, test, validation and deployment** activities and improve engineering efficiency across the delivery lifecycle.
- Delivered backend engineering capability for a **digital transformation programme** using **Java, Spring Boot, JPA, Azure and Terraform**.
- Designed and built scalable **microservices and RESTful APIs** supporting core retail operations, applying modern service design and integration practices.
- Contributed across the **full software delivery lifecycle**, including requirements analysis, architecture, implementation, **automated testing, CI/CD and deployment**.
- Championed **clean code, TDD/BDD, API quality** and engineering best practice within an **Agile delivery team**.
- **Mentored developers** and supported integration of services within a complex **cloud-native ecosystem**.

KEY TECHNOLOGIES

AI-assisted Engineering | Agentic AI | Java | Spring Boot | JPA | Azure | Terraform | Microservices | REST APIs | TDD | BDD | CI/CD | Agile |

M&G Prudential — Technical Lead / Manager (perm) | September 2019 - September 2024

- **Adopted AI-assisted engineering techniques** during later platform-modernisation initiatives, exploring emerging agentic workflows to improve change analysis, engineering automation and developer productivity.
- Provided technical leadership across multiple distributed engineering feature teams in the **UK, Poland and India**, covering **requirements, technical design, sprint planning, CI/CD**, release and production delivery.
- Line managed, coached and mentored developers, including delivery of technical training and knowledge transfer for junior and graduate engineers.
- Led and supported **Java, Spring Boot RESTful microservice** delivery, **API integration** and platform modernisation within **Agile** delivery teams.

Used **Node.js** to receive requests, applying business logic, and returning JSON.

- Partnered with Product Owners, engineering management and wider stakeholders to align delivery activity with business priorities, resolve blockers and maintain engineering standards.
- Delivered **cloud migration** and platform modernisation, including migration from on-premises CMS to cloud.
- Worked across **Azure, AuroraDB, Terraform, CI/CD YAML pipelines, Kubernetes, OpenShift, Apigee APIs, Spring Boot** and **RESTful microservices**.
- Improved release-to-production practices, creating smoother, faster and more predictable release lifecycles.
- Introduced and embedded **Agile** delivery practices, **TDD** and **BDD** across engineering teams.

KEY TECHNOLOGIES

AI-agentic EngineeringJava | Spring Boot | REST APIs | Microservices | Azure | Kubernetes | OpenShift | Kafka | Apigee | YAML CI/CD | Node.js | Python | Golang | React | Xplan

Role concluded in September 2024 following an organisational redundancy programme.

Selected Government, Public-Sector & Java Delivery Experience

Alscient Ltd — Java Developer | *November 2018 - June 2019*

Designed and delivered **Spring Boot RESTful API** services for a parent portal project supporting Scottish School Authorities, working in an **Agile/TDD** environment using **Hibernate**, **JUnit** and **Cucumber**.

SekoPay Coin — Lead Java Developer | *April 2018 - September 2018*

Led **Java/Spring Boot/Hibernate** development in an **Agile** delivery team, using **TDD**, **Maven**, **Jenkins** and **continuous integration** practices.

Clydesdale Bank — Java Engineer | *November 2017 - April 2018*

Converted legacy COBOL logic into **Java 8/Spring Boot RESTful services** backed by **Oracle** and **Elasticsearch**, using **TDD**, **REST Assured**, **Jenkins** and **Jira**.

Rambus — Java Engineer | *April 2017 - September 2017*

Developed **Java** functionality for a back-office ticketing processor module extending the Paragon Smart Ticketing application for Rail Settlement Plan Ltd.

British Airways HQ — Java Developer in Test | *December 2016 - February 2017*

Delivered **Java-based automated testing** using **Selenium**, **Cucumber**, **Gherkin** and **Jenkins** within an **Agile** delivery environment.

BSkyB — Java Developer in Test | *October 2015 - October 2016*

Designed and implemented **RESTful** automated test coverage using **Cucumber**, **Jira** and **Jenkins**, working closely with development teams to validate client and end-user journeys.

Atos Consulting / CalMac Ferries — Java Solution Developer | *May 2015 - August 2015*

Designed and developed **J2EE/RESTful services** and **Apache Camel/Mule** integration modules for CalMac Ferries, liaising with stakeholders, BAs, developers and testers and coordinating offshore delivery resources.

Forestry Commission — Java Solution Developer | *October 2014 - April 2015*

Delivered **Java/Spring MVC/Hibernate/Mule** development with **Oracle PL/SQL** in an **Agile/TDD** environment using **Jenkins**, **Maven**, **JUnit** and **JBehave**.

CGI Consultancy / Scottish Government — Application Solution Designer | *May 2014 - September 2014*

Produced application designs, **UML** models, wireframes, use cases, user stories and data-model input for the Scottish Government AECS project, supporting onshore/offshore build and test teams through the **Agile/Jira** lifecycle.

Earlier Financial Services, Public Sector & Leadership Experience

Barclays Corporate — Application Solution Designer | *June 2012 - April 2014*

Translated quant-led Fixed Income and wider financial-services requirements into solution designs and working **Java/Spring MVC** functionality within a **Service Oriented Architecture** environment. Delivered **WSDL/SOAP** service specifications, **UML** models, user stories, product manuals, build guides and stakeholder-facing design documentation, while supporting onshore/offshore developers, performance testers and penetration testers through the full **Jira** delivery lifecycle. Responsible for **AWS** migration with **Terraform**

Procurator Fiscal Office — Java Developer | *January 2012 - April 2012*

Designed and developed core **Java/Spring MVC/Hibernate** functionality for CopLink, a police-facing public-sector service, while introducing stronger coding conventions, **TDD** and **Agile** delivery practices along with **TypeScript**.

JP Morgan Chase — Java Developer | *April 2011 - October 2011*

Translated quant-led financial requirements into working **Java/Spring MVC** functionality, refactoring and modernising a legacy codebase into a cleaner, testable application design. Delivered production-quality **Java/JMS/Sybase** code using **UML**, **Maven**, **Jenkins**, **JUnit**, **Jira**, **TDD** and **continuous-integration** practices.

Standard Life — Java Developer | *August 2010 - February 2011*

Translated quantitative and actuarial business requirements into working **SOA** business services using **Java**, **Spring**, **Hibernate**, **Castor XML**, **DB2** and **mainframe TSO**, including migration from **HDi 3** to the secure **SOlr4** framework.

G4 Properties — Java Developer | *June 2009 - June 2010*

Built a property tracking, management and audit back-office system using **Java, Spring, Hibernate, JSP, JQuery, Ajax, CSS** and **MySQL**.

SeeWhy Software Ltd — Java Developer | *November 2008 - May 2009*

Owned investigation and resolution of reconciliation/support issues maintained system checks and support documentation, and worked closely with engineering teams, third-party suppliers and business stakeholders.

Intrallect Ltd — Java Developer | *June 2008 - September 2008*

Designed and developed a reporting tool for a Digital Object Repository platform using **Java, JSP, DB2, Tomcat, IntelliJ** and **JUnit**, including **UML** design and user documentation.

BuildStore Ltd — Head of Development | *April 2004 - May 2008*

Headed a 12-person development team, accountable for new application development, application support and full **SDLC** delivery. Owned product feature delivery from requirements and design through implementation, testing, release and support, while mentoring junior developers and motivating experienced engineers. Also introduced **AWS** and migrated several system.

Critical Blue Ltd — Java Developer | *May 2002 - December 2003*

Worked across architecture, component design and UI development for an Electronic Design Automation coprocessor synthesis product, using **Java/J2EE, Servlets, JSP, Tomcat, JBoss, DB2** and **XML**.

Test Advantage Ltd — Java Developer | *January 2001 - May 2002*

Designed and developed the **Java** side of a Silicon Wafer Analyser application, including Swing GUI development, **Java3D** visualisation, **XML** schema/state handling and user documentation.

Race Relations Council — Java Developer | *May 2000 - September 2000*

Designed and configured the organisation's first **DB2**-backed client-information database, including **Java Servlets, JSP, JDBC, JAAS** authentication and user-facing interfaces.

The Solid Wood Company — Java Developer | *October 1999 - April 2000*

Designed and developed the company's first website, including client requirements, page templates, **HTML/JavaScript** and **Java/JSP/Servlet-based** data capture backed by **DB2**.

Education

- BSc Computing — University of West of Scotland | Sep 1997 - June 2000
- 5 Higher Grades, 6 O Grades — Shawlands Academy, Glasgow | Aug 1981 - May 1987

Additional Information

- British citizen — no visa sponsorship required
- Full current UK driving licence
- Able to complete Disclosure Scotland / DBS checks as required