

# Shajid Issa

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## Profile

Lead Java & Integration Developer with over 20 years of experience delivering enterprise-scale solutions across healthcare, research, and e-commerce. Skilled in cloud-native development, microservices, and data-driven platforms. Proven leader with extensive NHS and academic project experience, mentoring developers, and presenting at international conferences.

## Key Achievements

- Delivered secure Access Management Service for UK Biobank Research Analysis Platform, supporting 500k+ genome participants.
- Led NHS Spine/HL7/FHIR integrations across University Hospitals of Leicester, enabling seamless clinical data exchange.
- Developed automated Patient Level Contract Monitoring (PLCM) extraction system adopted by NHS England.
- Technical lead for multi-country clinical trial platforms at University of Oxford, ensuring compliance with global regulations.
- Presented NHS/academic software solutions at conferences in Harvard, Nuremberg, Missouri, and New York.

## Key Skills

<b>Programming &amp; Frameworks</b>	Java (8–17), Spring Boot, Hibernate, JPA, Scala, C++, Node.js
<b>Web &amp; APIs</b>	REST, SOAP, JSP, Servlets, React, Angular
<b>Databases</b>	Oracle, MySQL, Postgres, MongoDB, SQL Server
<b>DevOps &amp; Cloud</b>	AWS, Azure, Docker, Jenkins, Ansible, Kubernetes
<b>Testing &amp; Tools</b>	JUnit, Mockito, Selenium, SonarQube, Git, Maven
<b>Standards</b>	HL7, FHIR, NHS Spine integration

## Work Experience

### Lead Java Developer – UK Biobank

*Jun 2021 –*

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- Architected and delivered Java-based Access Management Service for genome research platform (500k+ participants).
- Designed and deployed AWS CloudFormation and SAM templates to support scalable research analysis.
- Collaborated with scientists and data engineers to deliver secure cloud-native infrastructure.
- Mentored junior/mid developers, driving best practices in code quality and DevOps pipelines.
- Tech: Java 17, Spring Boot, Tomcat, AWS, GitHub.

## Lead Data Integration Developer – University Hospitals of Leicester

*Aug 2021 –*

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- Configured and extended PhenoTips patient management system with custom NHS features.
- Built RESTful APIs and integrated NHS Spine for patient-centric workflows across multiple systems.
- Delivered automated extraction pipeline for PLCM, adopted regionally by NHS England.
- Ensured compliance with HL7 and FHIR standards across integrations.
- Tech: Java 11, Spring Boot, HL7, FHIR, Tomcat.

## Lead Software Developer – University of Oxford

*Aug 2018 – Jun 2021*

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- Led development of Orion and EMPA trial platforms, used across multiple countries with strict compliance needs.
- Oversaw and mentored 5 developers, implementing agile methodologies and CI/CD practices.
- Collaborated with Microsoft CSE team to create prototype clinical trial systems.
- Implemented REST APIs, secure data collection, and multilingual support.
- Tech: Java 8, Spring Boot, REST, JUnit, Mockito, JavaScript.

## Lead Java Backend Developer – RS Components

*Mar 2018 – Aug 2018*

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- Developed backend of flagship global e-commerce site using Java 8, JEE, and REST APIs.
- Applied TDD/BDD methodologies with IntelliJ, GitLab, Jenkins, Docker.
- Collaborated with cross-functional agile team of 10 to deliver scalable features.
- Tech: Java 8, JEE, Spring, REST, Endeca, Docker.

## Lead Java Developer – NHS Genomics (UHL & University of Leicester)

*Oct 2017 – Mar 2018*

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- Contributed to NHS 100k Genomes Programme by deploying and integrating PhenoTips system.
- Developed Spring Boot microservices with secure authentication modules.
- Integrated with NHS Patient Master Index and coordinated across multiple hospitals.
- Deployed across AWS, Azure, and UK Cloud environments.
- Tech: Spring Boot, Microservices, Swagger2, Angular4, Docker.

## Earlier Career (2001–2017)

Held senior Java, GIS, and integration roles across NHS, University of Leicester, Cancer UK, RS Components, and Leicestershire County Council. Delivered large-scale biomedical research software (BRISKit), integrated clinical systems using HL7, led DevOps transformations, and presented internationally (Harvard, Germany, USA).

## Education

BSc (Hons) Computer Science (2:1) – University of Leicester, 1999

## References

Available on request.