

Senior Software Engineer

Basic information

Band: C

Job family: Technical

Terms: Permanent

Location: Cheltenham

Reports to: Technical Team Leader

Team: Technology Development

Business unit: Technology



Role purpose:

- To plan and deliver our integration implementation and associated technologies, as part of the future landscape for admissions.
- Lead integrations via the Mulesoft Anypoint Platform or using Java Spring Framework, deliver strategic integration of COTS, legacy systems, data providers, and preferably new API-led connectivity using the Mulesoft platform.
- Evangelise and drive adoption and implementation of the Mule platform through UCAS.
- Own technical excellence in the team and influence the same across the department, working alongside key technical roles to ensure compliance to UCAS' coding and design standards.
- Maintain and develop a strong knowledge of relevant design patterns, especially those related to integrations.
- Maintain a detailed knowledge of existing UCAS applications and systems.
- Work in agile software teams to deliver high quality software against tight deadlines.

Key duties and responsibilities:

- Work with the Integration Team, Solution Architect, and Product Owner in a leading role to deliver integration capability and capacity using Mule ESB.
- Guide best practice and design best fit strategic solutions to facilitate UCAS' digital transformation.
- Drive technical innovation in the team.

- Evangelise and promote the use of the Mulesoft Anypoint platform through the company.
- Code and configure solutions using software teams, coding standards, and tools.
- Create and maintain automated test libraries.
- Lead development and prototype investigations (or spikes) and user stories.
- Be aware of the product road map with reference architecture, technical requirements, and prioritisation.
- Streamline the software delivery process by promoting continuous integration and a continuous deployment model.
- Collaborate in scrum teams, and with Change and Release Management and IT Partners, sharing knowledge and best practice to ensure seamless delivery to customers.

Person specification:

- Educated to degree level in a relevant computing discipline, or equivalent professional experience.
- Three+ years' experience of enterprise integration, ideally using Mule ESB (Cloudhub), or strong Java Spring experience.
- Experience integrating COTS, internal/external data providers, legacy systems, and other API-led connectivity.
- Experience leading and designing integration solutions using:
 - **technologies:** Java, J2ee, Spring, MuleESB, Groovy, Hibernate, Junit/Munit, SOAP, REST, RAML/WSDL, XML, XSD/XSLT, XPath, JSON, Messaging (SNS, JMS)
 - **databases:** Mongo DB, Oracle, SQL Server, MySQL, PostgreSQL
 - **servers:** Tomcat, IBM WebSphere, Web Logic, Glassfish, Apache
 - **tools:** Anypoint Studio (API Designer, DataWeave, Build to Deploy), Maven/Gradle, Git, Eclipse IDE, Soap UI, Junit, Munit, Confluence, JIRA, Bamboo
 - **methodologies:** agile, scrum, Test Driven Development (TDD), Continuous Integration (CI)
- Strong knowledge of rest APIs and integration via APIs, software design patterns, especially integration patterns, and design principles.
- Excellent communication and interpersonal skills.
- Able to communicate effectively to both technical and non-technical audiences.
- Experienced in designing and building usable and scalable systems and applications.
- Comfortable working in a dynamic, large-scale, agile change initiative with multiple technologies.
- Experience developing for the Cloud, specifically AWS.
- Experience of test-driven development alongside use of automated test frameworks, mocking/stubbing, and Junit/Munit.
- Experience using Behaviour Driven Development with Cucumber.

This role profile sets out the scope and main duties of the post at the date when it was drawn up. Such details may vary from time to time without changing the general character of the post or the level of responsibility entailed. Such variations are a common occurrence and cannot of themselves justify a reconsideration of the level of the post. All UCAS employees are expected to be flexible in undertaking the duties and responsibilities attached to their role and may be asked to perform other duties, which reasonably correspond to the general character of their role and their level of responsibility.

Our values in action

Customer – We always look through the customer lens. The logic of the customer is the logic of UCAS.

Commitment – When we commit, we deliver on time, quality, and budget, or we negotiate changed commitments for good reason. We never leave commitments uncovered.

Team – We work collaboratively. When we commit, we commit as an individual and as a team. We strive for and support team success as well as individual success.

Outcomes – We plan and do things to achieve outcomes. We define them, aspire to them, and deliver them.

Agility – We know we need to be agile when we look through the customer lens, when we make commitments, when we work in teams, and strive for the right outcomes.

Extraordinary – We are ambitious for our customers, for UCAS, and for our teams. We want more than ordinary outcomes – we strive to achieve extraordinary outcomes, extraordinary customer focus, and an extraordinary culture of high performance and quality of focus.