

Senior Software Engineer

Basic information

Scale: 2.2

Job family: DDaT

Terms: Permanent

Location: Cheltenham

Reports to: Technical Team Lead

Direct Reports: n/a

Team: Product Engineering

Business unit: Digital and Data

Date reviewed: month and year



Job purpose:

- The Senior Software Engineer reports to the Technical Team Lead.
- Assumes the role of key development and technical specialist resource for the team, and is responsible for developing and delivering quality software solutions.
- Maintain a detailed knowledge of existing UCAS applications and systems.
- Work alongside other senior software engineers to ensure compliance with UCAS coding and design standards.

Key accountabilities:

- Provide technical leadership and innovation, utilising advanced technical skills.
- Accountable for the development of quality solutions based on technical requirements.
- Provide coaching and mentor other team members in key technologies and developments, to improve general skill set of team and increase knowledge of solutions.
- Code/configure and document complex solutions from supplied specifications, using agreed standards and tools, and conduct reviews with others as appropriate.
- Define and maintain coding and best practice standards and documentation guidelines.
- Develop and maintain specialist knowledge of cloud technologies, design principles, architectures, and software.
- Analyse data requirements to establish, modify, and maintain object/data models
- Act as a subject matter expert (SME) for related technologies and understand the interactions between the systems.

- Work closely in collaboration with solutions architects to produce systems analysis documentation for the implementation of new projects and system changes.
- Work with Change & Release Management to ensure a smooth transition/transfer of new systems and developments into the run area.
- Support CITP with release deployment and configuration duties.
- Provide accurate estimates for development activity as part of a request for change deliverable (either standalone or as part of a project).
- Maintain interoperability of all development work to ensure applications can work with other products or systems – present or future – without any restricted access or implementation.
- Develop user stories by working with product owners and SMEs, developing sprint goals, translating business requirements into technical specifications, and assisting in maintaining product backlogs as needed.
- Validate technical requirements and prioritisation in line with product roadmap.
- Evidence testing to satisfy criteria for delivering a release, end-to-end business process testing as per agile methods.
- Provide support for new releases for the agreed early life support period and ensure high quality handover information before discontinuing support, including secondments to support where appropriate.
- Provide technical input into long-term continuous improvement activities carried out by CITP

Skills, qualifications, and experience:

- Educated to degree level in relevant computing discipline or with equivalent professional experience.
- Five or more years' experience of developing enterprise level .Net applications.
- Experience leading and designing solutions using the following:
 - o technologies: ASP.Net, C#, Web API, MVC, Angular, REST, JSON, Messaging (SNS, SQS)
 - o databases: Oracle, SQL Server, MySQL, PostgreSQL
 - o tools/frameworks: Visual Studio 2015 and above, Git, Soap UI, Munit, xUnit, Confluence, JIRA,
 - Bamboo, MySQL Workbench
 - o methodologies: agile, scrum, test-driven development (TDD), continuous integration (CI)
- Strong knowledge of rest APIs and integration via APIs, software design patterns.
- 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 xUnit/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-focused – We understand what our customers want, and we act on their changing needs.

Collaborative – We collectively create an engaging and positive work environment.

Accountable – We take ownership of our individual and organisational performance.

Service excellence – We realise, grow, and maximise our potential.