

Software Engineer

Basic information

Scale: 2.1

Job family: Digital, Data and Technology

Terms: Permanent

Location: Cheltenham

Reports to: Technical Team Lead

Direct Reports: N/A

Team: Product Engineering

Business unit: Technology

Date reviewed: January 2021



Job purpose:

To develop software solutions in line with UCAS' Corporate and IT strategy. To work with product owners to develop individual services in line with their strategic vision. To develop and maintain a strong working knowledge of existing UCAS applications and systems, to assist UCAS' core IT partner in their ongoing operation.

Key accountabilities:

- Delivery of software solutions primarily using C#, Web API, and Angular.
- Report to the Technical Team Lead in an agile/scrum development environment to ensure a continual delivery stream of features.
- Provide technical input and innovation, while collaborating with the rest of the scrum team on the development of solutions.
- Code and configure solutions in line with our coding standards, using standard tooling such as Visual Studio and ReSharper.
- Develop and prototype investigations or spikes to assist in the delivery of features.
- Ensure the delivery of high quality products through techniques such as test-driven development, pair programming, and code review.
- Act as a gatekeeper for code repositories, ensuring only high-quality code, developed in line with our standards, is accepted into the production estate.
- Contribute to the ongoing improvement of the scrum team through agile retrospective ceremonies.

Skills, qualifications, and experience:

- Good knowledge of back end development using C#, WebAPI, and SQL.
- Experience of Java development, especially APIs, would be beneficial.
- Experience of front-end development using Angular is preferable.
- Experience of native mobile development such as React Native would be beneficial.
- Good knowledge of software development patterns and practices, including test-driven development and service-orientated architecture.
- Experience of working with AWS Cloud Technologies, such as API Gateway, Lambda, CloudFormation, EC2, ElasticBeanstalk, Elasticsearch, IAM, and RDS would be beneficial.
- Experience of working with Docker, Terraform or similar technologies would be beneficial.
- Experience of Distributed Version Control, such as Git, would be beneficial.
- Experience of agile delivery methodology would be useful but not essential.
- An understanding of event sourcing would be useful but not essential.
- Strong written and verbal communication skills are essential, given the working practices used, such as code review and pair programming,
- Good collaboration skills to facilitate the development of high-quality products in line with the product owner's requirements.
- A keen desire, where gaps exist, to learn and engage with technologies in our digital estate.
- An all-round high level of interest in IT would allow you to contribute to our lunchtime learning sessions.

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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.

Trusted – Individuals are trusted to make informed decisions and take appropriate risks.