JOB TITLE: **SENIOR SOFTWARE DEVELOPER**

REPORTS TO: **SYSTEMS DEVELOPMENT TEAM LEADER**

Background

As a part of a small development team, you will play a crucial role in designing and developing a cutting-edge digital platform from the ground up. This platform will be compatible across all devices and operating systems, supporting innovative teaching and learning experiences to meet the evolving needs of staff, participants, and students at Cambridge Judge Business School (CJBS).

The role

In this role, you will design and implement system architecture and scalable solutions tailored to support the platform, ensuring compatibility across all devices and operating systems. This includes leveraging your expertise in cross-platform development using .NET MAUI to deliver a seamless and unified experience on mobile, desktop, and web platforms. You will collaborate with the team to create a robust digital platform, develop solutions that enhance teaching and learning experiences, and engage in dynamic, project-based activities.

Close collaboration with other IT functions will be essential to plan, manage, and prioritise development tasks. Regular attendance at project meetings, providing accurate planning estimates, and reporting on progress will ensure successful delivery. You will work closely with existing IT teams, the Director of Digital Learning, and the Director of IT for guidance and support.

This role is initially offered on a two-year fixed-term basis.

Main responsibilities

Architecture and design

- Design the technical architecture for the Online Learning Platform, ensuring compatibility across devices and operating systems.
- Collaborate with team members and key stakeholders to justify design ideas.
- Create, maintain, and upgrade platform solutions using the latest cloud-based techniques, tools and standards, emphasising secure authentication, scalability, performance and resilience.

Design and coding

- Utilise a full-stack development environment, and leverage cross-platform frameworks such as .NET MAUI, design and develop software for the online learning platform.

- Use Secure Software Development Life Cycle (SSDL) tools, ensure security and data protection are integral to the design process and produce clean, responsive, well-documented, testable, maintainable and reusable code.
- Deliver a seamless user experience across web, desktop and mobile platforms.

DevOps

- Automate code deployment using Continuous Integration (CI)/Continuous Delivery (CD) tools and standardised organisational procedures and guidelines for systems integrations and builds.
- Ensure that the platform's build and integration lifecycles are efficient, reliable, and adhere to established standards.
- Manage deployment pipelines to support iterative development and delivery processes.

Business systems integrations

- Integrate core school systems with the online learning platform, leveraging Aplications Programming Interfaces (APIs) and connectors to ensure seamless data flow across systems.
- Develop and maintain custom integrations to meet the organisation's business and education needs while ensuring the platform's scalability and adaptability to future requirements.

Cloud development resources

- Collaborate with the Systems Development team to manage and optimise cloud resources critical to the online learning platform.
- Advise on cost-effective tools, ensuring scalability and reliability, and obtaining approval for expenditures.
- Monitor resource usage and ensure alignment with platform performance requirements.

Systems updates and upgrades

- Ensure all code is stored in version control and adhere to scheduled development cycles.
- Manage updates to custom applications, ensuring third-party tools remain current and functional.
- Using IT Service Management (ITSM) change management practices, proactively identify outdated technologies, upgrade systems as necessary, and maintain high standards of quality, security, and reliability.

Testing

- Manage unit testing, Test Driven Development (TDD), Secure Software Development Life Cycle (SSDL) and automated testing tools.
- Create and execute comprehensive test plans for the online learning platform.
- Ensure that the software meets performance, styling, security and accessibility standards.
- Post deployment, monitor the platform, analyse logs, address any issues or outages and investigate promptly.

IT Service Management

- Use the IT Service Management (ITSM) features to manage workloads, requests and help standardise the approach across the team, using frameworks such as the IT Infrastructure Library (ITIL).
- Use the project management tool to track tasks and the change management processes to record changes to systems and services.
- Promote the use and benefits of the ITSM within the wider team to ensure transparency and accountability in managing system changes and service improvements.

Communications & relationships

- Proactively engage and collaborate with other team members to ensure that everyone is aware of changes and current activities, as well as working together to solve cross-team problems and collaborate on projects.
- Develop relationships with key stakeholders, promoting services and technologies and ensure that changes to systems and services are collaborative, engaging the community for feedback.
- Foster relationships with faculty, staff and students to promote existing and new technology and services, both in person and via normal communication channels, such as SharePoint.
- Be open to accepting and giving feedback.

Research & technology

- Attend training courses, conferences, exhibitions and seminars, reading specialist journals and online publications to keep technical knowledge up to date.
- Research and test new and emerging technologies in alignment with strategic aims and stakeholder feedback.
- Undertake technical training as per the role's development pathway.

Problem solving

- Take a logical and thorough approach to find the root cause, with a purposeful approach.
- Identify sustainable solutions to mitigate future risk and be open and willing to seek assistance or to escalate where appropriate. Report issues you cannot locally resolve.
- With your team lead, utilise the ITSM problem management features to record problems and communicate these to stakeholders.

The person

The ideal candidate should have the following qualities, skills, and attributes:

- Experience with DevOps practices, particularly version control systems such as Azure DevOps and Git, and the implementation and management of CI/CD pipelines.
- Expertise in programming languages relevant to web and cloud based applications, with strong problem solving and debugging abilities.
- Meticulous attention to detail and a dedication to quality assurance.

- Ability to write clean, maintainable, and well documented code.

- A degree in Computer Science or a related field, or equivalent practical experience.

- Willingness to occasionally work outside standard hours as required by project needs.

Desirable:

- Experience developing for cross platform environments such as .NET MAUI, Flutter, QT, Uno Platform, or similar technologies.

- Familiarity with cloud authentication methods (including SAML, OpenID, and OAuth).

- Knowledge of RESTful APIs and data integration techniques.

- Professional certifications in software development or cloud technologies (e.g., Microsoft Azure) are highly valued.

Benefits

This is a full-time position working 37 hours per week. There will be a nine-month probationary period. Holiday entitlement is 33 days per annum plus eight days of public holidays. The salary will be in the range of £41,671-£55,755 per annum.

The advertised salary range reflects the full progression within the grade. Your starting salary will be determined based on how your skills and experience align with the requirements of the role.

The University of Cambridge comprises more than 150 departments, faculties, schools and other institutions, plus a central administration and 31 independent and autonomous Colleges. It is one of the world's oldest and most successful universities, with an outstanding reputation for academic achievement and research.

With excellent benefits, extensive learning opportunities and a stimulating and attractive environment, the University of Cambridge is a great place to work. Our employees are eligible for a wide range of competitive benefits and services. We give them access to numerous discounts on shopping, health care, financial services and public transport. We also offer final salary pensions and tax-efficient bicycle and car lease schemes.

We have two nurseries and a holiday play scheme to help support those with childcare responsibilities and we offer various types of family-friendly leave to aid employees' work-life balance. In addition, we operate a number of initiatives to promote career development, health and well-being.

Further details can be found at www.admin.cam.ac.uk/offices/hr/staff/benefits. There is also a range of information about living and working in Cambridge at www.jobs.cam.ac.uk.

Application arrangements

To submit an application for this vacancy, please search for this position on the University's Job Opportunities website at www.jobs.cam.ac.uk and click on the "Apply online" button at the bottom of the relevant job description. This will route you to the University's Web Recruitment System, where you will need to register an account (if you have not already) and log in before completing the online application form.

The closing date for applications is 23 July 2025

Applicants are required to provide details of two referees. These will not be contacted unless the applicant is shortlisted.

Equality of opportunity at the University

The University of Cambridge is committed to a proactive approach to equality, which supports and encourages all under-represented groups, promotes an inclusive culture and values diversity. Entry into employment with the University is determined by personal merit and by the application of criteria required for the post. No applicant for an appointment or member of staff will be treated less favourably than another on the grounds of sex (including gender reassignment), marital or parental status, race, ethnic or national origin, colour, disability (including HIV status), sexual orientation, religion, age or socio-economic factors.

The University has various diversity networks which help it to progress equality; these include the Women's Staff Network, the Disabled Staff Network, the Black and Minority Ethnic Staff Network and the Lesbian, Gay, Bisexual and Transgender Staff Network.

Information if you have a disability

The University welcomes applications from individuals with disabilities. We are committed to ensuring fair treatment throughout the recruitment process. We will make adjustments to enable applicants to compete to the best of their ability wherever it is reasonable to do so and, if successful, to assist them during their employment. Information for disabled applicants is available at www.hr.admin.cam.ac.uk/policies-procedures/disabled-applicants-and-members-staff/support-services-available-within.

We encourage you to declare any disability that you may have, and any reasonable adjustments that you may require, in the section provided for this purpose in the application form. This will enable us to accommodate your needs throughout the process as required. However, applicants and employees may declare a disability at any time.

If you prefer to discuss any special arrangements connected with a disability, please contact hrsupport@jbs.cam.ac.uk.