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| Job title | Software Engineer | | |
| Job family | Technology, Systems & Delivery | Grade | 7 |

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| Job purpose |
| Responsible for implementing effective software and tools for given designs. |

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| Key responsibilities and accountabilities |
| <ul style="list-style-type: none"> • Develop effective software that meets given specifications • Review and give feedback on others' code • Write appropriate tests using automated test driven techniques for ensure code quality • Integrate the software with monitoring and support tools • Support system integration in its operating environment • Write and review technical documentation • Help to troubleshoot and resolve issues throughout the product life cycle, including out of hours support for incident resolution • Participate in the team's agile planning and delivery process • Effectively participate in the teams software development methodologies, such as pairing, code and documentation reviewing and continuous delivery • Learn new technologies and keep abreast of existing technologies |

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| Knowledge, skills, training and experience |
| <p>Essential</p> <ul style="list-style-type: none"> • Demonstrable experience writing and maintaining robust production software • Competence in one or more mainstream development languages and frameworks • Competence with one or more mainstream development and deployment tool chains (IDE, SCCS, CI) • Knowledge of the web architecture and key technologies (HTTP, DNS, distributed design) • Competence in test driven development and broader testing & QA concerns • Competence in developing for operational concerns (monitoring integration, performance testing, security considerations) • Experience of project working and professional software development processes, including agile • Effective collaboration within a team – ability to speak up, challenge, agree and commit <p>Desirable</p> <ul style="list-style-type: none"> • Experience of database design and use in software applications • Takes responsibility for driving tasks to completion • Understanding of designing & implementing for non-functional concerns • Worked in a professional software development environment on several projects (including experience in testing, design and release) • Experience of releasing their software to a production use case • Participated in reviews and inspections of code (sat with a peer or someone more senior) |

- reviewing your code)
- Software Engineering or Computer Science Degree or equivalent

Job impact

Decision Making

- Reports to Principal Software Engineer or Software Engineering Manager
- Tasks are allocated to the job holder by the team lead
- Undertakes tasks independently
- Independently writes tests to check quality of code
- Assesses feedback from reviews and incorporates as appropriate
- Troubleshoots independently or with the support of others where necessary
- Contributes to the teams iterative and collaborative design and implementation decisions

Scope

Finance: No financial responsibility

Line Management: No line management responsibility

Ad-hoc Teams: Participates in departmental hack days and external ad-hoc events (typically 5 to 20 members)

Other information

For Reward team use only

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| Job Code | |
| Definition: | Content |

This job description is a written statement of the essential characteristics of the job, with its principal accountabilities, incorporating a note of the skills, knowledge and experience required for a satisfactory level of performance. This is not intended to be a complete, detailed account of all aspects of the duties involved.

Appendix

There may be sub-sets of the generic job described above which require additional technical skills. This appendix to the generic job description can be developed to cover such situations.

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| Division | Platform – Online Production Systems |
| Reports to (title) | Software Engineering Team Lead |
| Location base | London, W12 |

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| Organisation structure | Design & Engineering, Platform, Online Production Systems, CPS |
| <p>The Content Production Systems (CPS) team which created and maintains the system behind powering some of the most successful websites in the world, BBC News/Sport/World Service, is offering you a chance to contribute to both the current and next generation of authoring tools used by journalist to create content at the BBC.</p> <p>CPS has been around a long time. It started 20 years ago and is credited as the world’s first ever content management system for news.</p> <p>But, don’t worry, we have evolved massively in that time. We work with cutting edge technologies hosted on the cloud using a Kanban agile process.</p> <p>And we work at scale; our tools generate around 3.5k assets a day, are used by around 1.5k active users across the globe and our Content API handles around 3.5k requests per second.</p> <p>This role is part of the front-end/UI focused team that develop a suite of journalist-facing tools across a range of technologies including C#/WPF, Angular 1 & 2, React/Redux and Node.</p> <p>You’d be joining a dedicated, innovative team at an exciting time, as we look to continue the transformation of our tools to better support whole new kinds of rich, interactive, live digital journalism.</p> | |

| Additional job specific responsibilities and accountabilities |
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| <ul style="list-style-type: none"> • Competence across JavaScript technologies, in particular Angular, React, Redux, Node, Webpack, HTML, CSS • Proficient with the Microsoft .NET ecosystem. In particular WPF, WCF and C# • Demonstrable experience writing and maintaining robust enterprise software in a fast changing environment with rapid release cycles • Demonstrable experience building mobile-first responsive applications with JavaScript, including ES6 • Competence in TDD, BDD and broader testing and code quality concerns, including use of common testing frameworks (Jasmine, Mocha, Chai, Enzyme etc.) • Experience deploying production code in a Continuous Integration environment and an understanding of build, workflow and automation tools (webpack, babel, es2016, github, npm, yarn, grunt, gulp etc.) • Experience of project working and professional software development processes, including agile and pair programming |

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| Approval | |
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| Manager | Name and job title |
| HR Business Partner | Name |
| Date | |