

Job title	Software Engineer, Data Systems, BBC News		
Job family	Technical Systems & Delivery	Grade	7

Job purpose

Responsible for implementing effective software and tools for given designs.

Key responsibilities and accountabilities

- 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

Knowledge, skills, training and experience

Essential

- 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

Desirable

- 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

Job Code	
Definition:	Content / Content Support / Support

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.

Division	News Products & Systems, BBC Design & Engineering
Reports to (title)	Principal Software Engineer, Data Systems
Location base	New Broadcasting House, London

Organisation structure	
<p>This role reports to the Principal Software Engineer, Data Systems, News Products & Systems.</p> <p>The Principal Software Engineer, Data Systems reports to the Head of Software Engineering in News P&S. Head of Software Engineering reports to the departmental director and is part of the management team.</p>	

Additional job specific responsibilities and accountabilities	
<p>BBC News is changing. We've been moving towards public Cloud infrastructure since 2012 and the next, largest phase is about to begin. And we recently announced a major expansion of the World Service, bringing our journalism to more people than ever around the world with 11 new language services.</p> <p>Our mobile apps are used by millions. Our website often gets 50 million hits in a day. We've seen higher than 1.8 million concurrent users on our site and try to support every device we can, from simpler mobile phones to connected TVs. Our broadcast output is watched and listened to by people across the country and the world.</p> <p>We make the BBC's high quality journalism possible, and we actively look for new ways to reach people and to tell stories and communicate in new and effective ways.</p> <p>We are looking for talented software engineers to join our Data Systems team and create amazing products and to influence one of the world's largest sites. Focusing on systems underlying the BBC's online services you will design and build high quality components, largely in Java.</p> <p>The team recently built the results processing system for the US election and EU referendum coverage on the News website and we run the systems underlying our mobile apps. Amongst other things we're currently working on exciting new weather services and looking at how to efficiently serve journalism content to our numerous outputs around the world.</p> <p>We build high-volume, fast and resilient data services. We build product-focussed data systems that underlie our journalism and our weather output. We build real-time services for our elections results services. We get the data right, do it quickly and serve it to the teams that need it.</p> <p>Responsibilities</p> <ul style="list-style-type: none"> • To write, test and release quality Java code • To design, build and iterate public Cloud environments. • To liaise with Product Managers, Project Managers and Architects to ensure that all technical possibilities are explored and that our products achieve the best possible functionality. • To work collaboratively in multidisciplinary teams to deliver project requirements. 	

- To learn new technologies and to apply these to projects as applicable.
- To make appropriate use of Test and Behaviour Driven Development.

What we're looking for

- Software engineering experience in modern object-oriented languages, especially in Java.
- Understanding of Service Oriented Architectures, integration patterns and RESTful web services.
- Development experience using structured and unstructured data stores
- Experience working with core Internet technologies and UNIX/Linux systems.
- Experience implementing and consuming Web services.
- Experience with one or more test methodologies and of testing your own code.
- Experience of working to defined timescales.

Approval

Manager	Steve Wheeler, Head of Software Engineering
HR Business Partner	Kate Horton
Date	23 December 2016