JOB DESCRIPTION

BBC

Job title	Software Engineer		
Job family	Technology, Systems & Delivery	Proposed band	C

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

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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

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.

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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	**Design & Engineering (UX&D)**
Reports to (title)	**Creative Director**
Location base	**London**

Organisation structure	

We design the BBC's amazing digital experiences, from apps to websites, from iPlayer to CBeebies.

Our ace team of UX designers, architects and researchers collaborate closely with product, editorial and technical teams from across the BBC. Together we create elegant, delightful (not to mention award-winning) digital experiences on mobile, tablet, desktop and TV across 10 digital products: BBC Homepage, Search, News, Sport, Weather, Knowledge & Learning, CBeebies, CBBC, iPlayer and Radio & Music.

Additional job specific responsibilities and accountabilities

About you
A Software Engineer in UX&D is passionate about both technology and developing design into production code. You are enthusiastic about trying out new techniques and frameworks and communicating what you have learned with the world. You should be persuasive and able to explain new ideas to audiences with varying levels of experience and technical know-how. As the technical point-of-contact for developers working across all our product teams, you are adept at analysing questions and feedback.

Above all, you should love enabling developers and designers to build consistently amazing experiences on the BBC website.

Key Responsibilities
Take ownership of the development and maintenance of our public-facing and internal websites. Review proposed updates and additions, devise technical solutions and build up a rock-solid web application to serve as a UX&D GEL reference for designers and developers across the BBC and our wider public audience. Incorporate a variety of BBC tools and frameworks to make our website come alive with easily updated content: including videos, downloadable assets, articles, blogs posts, etc.

- o Develop effective software that meets given specifications
- o Review and give feedback on others' code
- o Write appropriate tests using automated test driven techniques for ensure code quality
- o Integrate the software with monitoring and support tools
- o Write and review technical documentation
- o Effectively participate in the teams software development methodologies, such as pairing, code and documentation reviewing and continuous delivery
- o Learn new technologies and keep abreast of existing technologies

Key Skills:
- Full stack web development experience, including server and client-side components.
- Demonstrable experience writing and maintaining robust production software
- Competence in one or more mainstream development languages and frameworks (Javascript,

Node, React, Vue, Webpack)
- Competence in test driven development and broader testing & QA concerns
- Passion for promoting standards and best practise.
- Excels at conceptual thinking, possessing analytical and problem solving skills.
- Experience designing and developing RESTful API services, following industry best practices
- Strong technical writing skills demonstrated via blog posts and other written work.

Personal Skills
- Social hustling skills - like to get out and talk to people.
- Persuasive arguments and leadership in discourse should be natural.
- Friendly and approachable - would do well as a teacher and mentor.
- Willingness to travel to anywhere our developer communities is.
- Prioritise demand to make good use of resources
- Deal with issues effectively

Big plus
- Experience of Linux OS
- Experience of database and document store technologies
- Experience of deploying and supporting applications deployed to AWS
- Experience of CI