

Job title	Software Engineer		
Job family	Technology, Systems & Delivery	Band	C

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

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 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 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. • Participate in the team's software development methodologies, such as pairing, code and documentation reviewing, and continuous delivery. • Learn new technologies and keep informed of existing technologies.

Knowledge, skills, training and experience
<p>Essential</p> <ul style="list-style-type: none"> • 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(Integrated Development Environment (IDE), Source Code Control System (SCCS), Continuous Integration (CI)). • Knowledge of the web architecture and key technologies (Hypertext Transfer Protocol (HTTP), Domain Name System (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 • 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 delivering tasks to completion. • Understanding of designing and 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 software to a production use case. • Participated in reviews and inspections of code.

- Software Engineering or Computer Science Degree or equivalent.

Job impact	
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.

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	BBC Home
Reports to (title)	Software Engineering Manager
Location base	Flexible

Organisation structure	
<p>In BBC Home you'll help build the next generation of the BBC online. Your work will be in front of tens of millions of people as we deliver world-class experiences via the BBC Homepage and our Topics capability. You'll also be involved in the work we're doing to make BBC online a more participatory experience.</p> <p>Our vision is to bring together everything the BBC produces in a personalised way, through connected services that allow you to interact directly with the BBC. By joining our team you will be given the opportunity to make a real difference to our mission to reinvent the BBC online for a new generation .</p> <p>Our agile teams are made up of software engineers, testers, user experience designers, design researchers, product owners, business analysts and project managers, all striving to create extraordinary experiences for our audiences.</p> <p>Learning, developing and sparking curiosity is part of our culture, so you will be joining a team who really care about you, the development of your technical skills, your career aspirations and your contribution to our great team culture.</p> <p>How we work</p> <p>In BBC Home we build our products following Continuous Delivery practises on AWS with a strong focus on Node.js and React. Builds run with fully automated pipelines deploying to live multiple times a day.</p> <p>We build fully responsive web solutions across multiple devices using HTML5, CSS and JavaScript and we create the back end services that drive them. Our services are highly-available and highly scalable so we build following service-oriented architecture and micro-service architectural patterns.</p> <p>We follow agile development methodologies and practice Test Driven Development, Behaviour Driven Development and advocate paired programming.</p> <p>We excel at collaboration and often we work closely with other teams in the BBC - and external companies - to push our capabilities further.</p>	

Additional job specific responsibilities and accountabilities
<p>As a Software Engineer you will be expected to develop software to a high standard with an emphasis on quality.</p> <p>You'll have an established background in software development and good knowledge of design principles and patterns - with a strong focus on web technologies.</p>

You'll love learning new technologies and be able to evaluate them and apply these to a variety of projects.

You'll have a positive attitude and a willingness to learn. You'll promote your skills, share your knowledge and contribute to the evolution of best practices throughout the department and the BBC.

The ideal candidate for this role will:

- Be comfortable pairing and working within a collaborative team
- Have great development skills and experience building applications (ideally in Node.JS)
- Experience of test driven development, with both unit and integration tests
- Experience of working in an agile team

We've got two roles available in BBC Home:

- One in the team working on the BBC Homepage, and developing a capability to manage Homepages across News, Sport and other BBC sites. We're building on the internal BBC framework called WebCore, mainly using React and Node and interacting with many different services.
- One in the team working on the Data Capabilities we need for projects like Topics and Follow. Our current projects in this team involve building API's, setting up AWS infrastructure and building services on top of Aurora and ElasticSearch.

Approval	
Manager	James Constable
Date	18/01/2021