

|                   |   |                      |          |
|-------------------|---|----------------------|----------|
| <b>Job title</b>  | <b>Software Engineer</b>                  |                      |          |
| <b>Job family</b> | <b>Technology, Systems &amp; Delivery</b> | <b>Proposed band</b> | <b>C</b> |

|  |
|--|
| <b>Job purpose</b>   |
| Responsible for implementing effective software and tools for given designs. |

**Appendix**

|                           |  |
|---------------------------|--|
| <b>Division</b>           | <b>Audience Platform</b>                                     |
| <b>Reports to (title)</b> | <b>One of Mark Howitt or Marc Littlemore and Tony CHEung</b> |
| <b>Location base</b>      | <b>London or Salford</b>                                     |

|   |  |
|---|--|
| <b>Organisation structure</b>   | <i>Software Engineer (full stack javascript)</i> |
| <p>BBC Platform Audience is one of the BBC’s biggest and most ambitious online projects. The ultimate aim being to personalise the online content and engage more effectively with our audience. Our services include, BBC account (sign in), recommendations, data storage, insights, notifications, participation services such as comments and voting and data warehouse solutions. You will be part of a team transforming the BBC into a data driven organisation supporting the delivery of the BBC’s services such as iPlayer, News, Sport, Children, Weather, Radio and TV to millions of people. Our tech stack is largely Java, Node.js and Cloud (AWS).</p> <p>Join us to deliver robust products at scale that in a modern AWS environment as part of a great multi-disciplinary agile team. Help us to deliver the solutions robustly and securely at scale – eg systems with more than 25,000tps, dealing with 2 billion data points in real time daily by the end of the year, delivering tens of millions of alerts in under a minute, and large scale events such as voting on Strictly Come Dancing and Glastonbury on iPlayer.</p> |  |

|   |
|---|
| <b>Additional job specific responsibilities and accountabilities</b>  |
| <p>You’ll be a full-stack JavaScript developer and this could see you implement a front-end feature using React, creating extra functionality for our back-end Node.js Express servers, or deploying your code to AWS. We strive to write clean, easy to read, and testable code which allows us to build reliable applications for our users. Continuous integration means that you could be deploying to production multiple times a day, and even in your first week. We ensure confidence in our code by adopting test driven development. You’ll be writing unit and integration tests for your code using Mocha, Chai and Sinon to enable continuous integration and deliver your new features to our live audience as quickly as possible.</p> <ul style="list-style-type: none"> <li>• JavaScript (ES2015/ES6)</li> <li>• HTML</li> <li>• CSS</li> </ul> <p><b>Preferred experience</b></p> <ul style="list-style-type: none"> <li>• Knowledge of test driven development</li> <li>• Testing frameworks: Mocha, Sinon, Chai (or similar)</li> </ul> |

- Committing code to Git
- React or other similar front-end JavaScript framework

| <b>Approval</b>            |   |
|----------------------------|---|
| <b>Manager</b>             | Kirsteen King, Acting Head of Architecture and Engineering, Audience Platform |
| <b>HR Business Partner</b> | <b>Tim Burden</b>   |
| <b>Date</b>                | <b>8/9/17</b>   |

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

| <b>Knowledge, skills, training and experience</b>   |
|---|
| <p><b>Essential</b></p> <ul style="list-style-type: none"> <li>• Demonstrable experience writing and maintaining robust production software</li> <li>• Competence in one or more mainstream development languages and frameworks</li> <li>• Competence with one or more mainstream development and deployment tool chains (IDE, SCCS, CI)</li> <li>• Knowledge of the web architecture and key technologies (HTTP, DNS, distributed design)</li> <li>• Competence in test driven development and broader testing &amp; QA concerns</li> <li>• Competence in developing for operational concerns (monitoring integration, performance testing, security considerations)</li> <li>• Experience of project working and professional software development processes, including agile</li> <li>• Effective collaboration within a team – ability to speak up, challenge, agree and commit</li> </ul> |

**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 |

*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.*