

## JOB DESCRIPTION



<b>Job title</b>	<b>Senior Software Engineer</b>		
<b>Job family</b>	<b>Technology, Systems &amp; Delivery</b>	<b>Proposed band</b>	<b>D</b>

### Job purpose

Responsible for the design of software, and for implementation and operation of effective software and tools.

### Appendix

<b>Division</b>	<b>Audience Platform</b>
<b>Reports to (title)</b>	<b>Dev Manager, Audience Platform One of Dev Manager, Data; Dev Manager Personalisation</b>
<b>Location base</b>	<b>London, Broadcast Centre, W12</b>

### Organisation structure

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 making a real positive difference to millions of people. Our tech stack is largely Java, Node.js and Cloud (AWS).

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.

### Additional job specific responsibilities and accountabilities

The primary focus of this role is on the creation and maintenance of fully tested RESTful web services, written in Java using a wide variety of AWS services, including some on pre-release NDA agreements. We're agile in our development with a multi-disciplinary team working closely with a Product Owner, Business Analyst and Project Manager along with dedicated QA and our colleagues in User Experience & Design.

As we receive high levels of traffic, you will be responsible for ensuring the services remain performant and scalable to meet the ever growing demands.

As a senior engineer, we would expect you to own issues, take a lead in cross team communications and mentor junior team members.

We're looking for someone with solid core Java skills, ideally gained in a high volume, low latency environment but any kind of enterprise experience at scale is highly desirable. Experience of Agile development practices such as pair programming, Scrum, XP, peer reviews and continuous integration and development would be ideal. If you have any cloud skills then great but if not don't worry as training will be provided and it's a great opportunity to expand your knowledge of a wide range of AWS cloud technologies.

## Key responsibilities and accountabilities

- Lead the design and development of effective software that meets complex product and business needs
- Review and give constructive feedback on others' code
- Drive work to successful completion across the immediate team
- Write appropriate tests using automated test driven techniques for ensuring code quality and coverage
- Integrate the software with monitoring and support tools
- Ensure the teams software works in its operating environment
- Write, review and take responsibility for technical documentation
- Lead troubleshooting and resolution of issues throughout the product life cycle, including out of hours support for incident resolution
- Participate in and lead as required, the team's agile planning and delivery process
- Effectively participate in and help improve the teams software development methodologies, such as pairing, code and documentation reviewing and continuous delivery
- Work with project, product and technical leads to design software and create implementable specifications and tasks at feature and component level
- Work with 3rd Party ("Indies") where necessary offering direction, support and documentation
- Mentor and coach more junior staff. Provide technical leadership and direction to peers and colleagues. Line Management of 1-2 software engineers (if appropriate)
- Learn new technologies and keep abreast of existing technologies and help introduce them where appropriate

## Knowledge, skills, training and experience

### Essential

- Extensive experience writing and maintaining large scale robust production software in a fast changing environment with rapid release cycles
- Expertise in one or more mainstream development language/frameworks
- Expertise with one or more mainstream development and deployment tool chains (IDE, SCCS, CI)
- Competence in database design and use in software applications
- Expertise in web architecture and key technologies (HTTP, DNS, distributed design)
- Expertise in test driven development and broader testing and QA concerns
- Expertise in developing for operational and non functional concerns (monitoring integration, performance testing, scale, availability and resilience, security considerations)
- Extensive experience of project working and professional software development processes, including agile
- Competence in translating product requirements into technical solutions
- Demonstrable experience in using design patterns
- Effective leadership and collaboration inside and beyond the team. The ability to influence diverse stakeholders effectively
- Takes responsibility for driving work to completion across the team
- Technical Lead on at least 1 Medium/Large sized project (3 months +)

### Desirable

- Worked on multiple projects or codebases concurrently

- Software Engineering or computer science degree or equivalent
- Experience of mentoring and supporting less experienced members of the team

**Job impact**

**Decision making**

- Write, review and take responsibility for technical documentation
- Collaborating with stakeholders and product managers to understand business requirements and influence product requirements
- Design and communicate the design of software features or components that meet business and product requirements
- Leads and implements software to meet business and product requirements independently
- Review others' work and give constructive feedback for improvement
- Resolve operational incidents, deciding on immediate and follow up actions and improvement plans

**Scope**

*Finance: Responsible for headcount budget of £125k*

*Line Management: Mentoring of more junior staff. Line management of 1-2 staff*

*Ad-hoc Teams: Participates in ad-hoc teams with up to 30 members  
Participation in process or technology strategy working groups as SME or to represent their team/division  
Participation in cross divisional forums for improvement of share tools and practices  
Occasional participation as temporary member in another unit or department as SME*

**Other information**

<b>For Reward team use only</b>	
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.*