

<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>

**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

<b>Job impact</b>	
<p><b><i>Decision Making</i></b></p> <ul style="list-style-type: none"> <li>• Reports to Principal Software Engineer or Software Engineering Manager</li> <li>• Tasks are allocated to the job holder by the team lead</li> <li>• Undertakes tasks independently</li> <li>• Independently writes tests to check quality of code</li> <li>• Assesses feedback from reviews and incorporates as appropriate</li> <li>• Troubleshoots independently or with the support of others where necessary</li> <li>• Contributes to the teams iterative and collaborative design and implementation decisions</li> </ul> <p><b><i>Scope</i></b></p> <p>Finance:                      No financial responsibility</p> <p>Line Management:        No line management responsibility</p> <p>Ad-hoc Teams:            Participates in departmental hack days and external ad-hoc events (typically 5 to 20 members)</p>	

<b>Other information</b>	
<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.*

**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.

**Additional job specific responsibilities and accountabilities**

**Responsibilities**

- Working with project, product, business analysts & technical leads to understand requirements and develop suitable technical solutions
- Ensure solutions meet performance and security requirements
- Participating in software development methodologies, such as pairing, code reviewing, agile process and continuous delivery
- Using CI/CD & AWS technologies to implement operational & deployment infrastructure for our systems
- Troubleshooting & diagnosing problems

**Essential Skills**

- React
- CSS3
- Standards compliant, semantic HTML5
- Responsive design
- REST web services
- Test automation
- Version control systems (we use Git)

**Desirable skills**

- Experience with pattern libraries
- SEO knowledge
- Next.js
- Node.js
- AWS
- Docker
- Continuous integration
- DevOps