LEVEL 4 // SOFTWARE DEVELOPER
ROLE OVERVIEW

To achieve this Level 4 apprenticeship, your apprentice would be expected to build relevant knowledge and experience within their day-to-day role, working on a range of software projects.

Suitable Job Titles

- **Software Developer**
- **Web Developer**
- **Application Developer**
- **Games Developer**
- **Mobile App Developer**

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Roles, Duties & Responsibilities

- Interpret software development requirements to estimate personal time and effort required to deliver the work, enabling accurate costs to be established.

- Break software development activities down into logical units of work to enable sequencing and ensure the best possible structuring of activities to deliver a high-quality "right first time" product.

- Report progress accurately throughout the development life cycle stages to ensure adequate audit trails so that the organisation can demonstrate how the product has been created for quality and commercial purposes.

- Identify and report any impediments to software development activities and propose practical solutions.

- Convert customer requirements into technical requirements, both functional and non-functional to ensure that the customers' expectations are accurately reflected in the software products developed.

- Identify and select the most appropriate technical solution, taking into consideration coding best practice and quality standards.

- Communicate software development solutions to a range of stakeholders to ensure clear understanding of requirements and how they have been met or adjusted.

- Consider security implications of proposed design to ensure that security considerations are built in from inception and throughout the development process.

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- Write logical and maintainable software solutions to meet the design and organisational coding standards.

- Apply security best practice to the software solution throughout the software development lifecycle.

- Create and maintain appropriate project documentation to explain the development process and resources used.

- Apply appropriate recovery techniques to ensure the software solution being developed is not lost.

- Implement appropriate change control to ensure that software development changes may be tracked, and quality risks managed.

- Undertake unit testing of solutions, with appropriate levels of test code coverage, to identify and resolve issues.

- Perform testing of the software solution to ensure a high-quality output.

- Deliver a suitably documented deployable solution to the customer for their use.

- Support delivery of one of more software deployment phases, such as trials and final release, to ensure that software developer outcomes are deployed correctly.

- Provide support during software trials and after final release to ensure that customers understand and can correctly apply the product and risks are mitigated.

- Respond appropriately to given Service Level Agreements (SLA) to ensure that time and resources invested in software development activity are allocated appropriately to deliver good customer service.

- Apply suitable bug fixes, appropriate to the severity and priority of the software development issue identified.

- Practice continuous self-learning to keep up to date with technological developments to enhance relevant skills and take responsibility for own professional development.

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