

Exploring Careers Through Technical Routes

Software Development Technician



The Industry

Software developers play a key role in the design, installation, testing and maintenance of software systems. They are employed in all sectors of industry. General duties include: review current systems; present ideas for system improvements and cost proposals; work closely with analysts, designers and staff; test products in controlled, real situations before going live; maintain systems once they are up and running; gather and evaluate user feedback; collaborate with other developers.

The technician works within the development team under supervision. They contribute to the introduction of ICT systems and developments into a production environment. They interpret simple design requirements for discrete components producing detailed specifications, recommending and executing improvements and creating technical documentation for reference and reporting.

Tech Partnership
www.thetechpartnership.com
<https://www.myworldofwork.co.uk/my-career-options/software-developer>

Skills and Requirements

Software developers need to be able to use one or more development languages, and have knowledge of current computer hardware and software. They also need:

- Strong communication skills
- The ability to work in a team
- An eye for detail and identifying problems
- An understanding of business and its IT requirements
- Analytical and commercial experience
- Logical and creative thinking skills
- The ability to learn new languages and technologies
- Resourcefulness with a troubleshooting ability
- Mathematical aptitude with problem solving skills
- Excellent organisational and time management skills
- Accuracy in their work and attention to detail
- Self development skills to keep up to date with fast changing trends
- Time management skills to work flexibly and under pressure, meeting agreed deadlines
- The ability to prioritise workloads and to know when to seek guidance.







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Working and Learning in Software Development



Progression

Study Programme	Apprenticeships	Further study	Career roles
<p>Gain IT experience.</p> <p>Level 2 Information and Creative Technology.</p> <p>Level 3 Computer Science Digital Technologies.</p> 	<p>Level 3 Software Development Technician.</p> <p>This apprenticeship is recognised for entry onto the Register of IT Technicians.</p> 	<p>FdSc Software Development.</p> <p>BSc Software development for business.</p> <p>CompTIA A+ IT certification.</p> 	<p>Opportunities exist across all industry sectors.</p> <p>Senior or principal developer.</p> <p>Systems design. IT architecture.</p> <p>Business systems analysts.</p> 

Calculation including problem solving

Tasks:	GCSE maths links:	Functional skills maths L2 links:
<ol style="list-style-type: none"> Assist the team in understanding the details of a problem and help to produce estimates for the general tasks required. Manage the development plan to prioritise multiple tasks when creating a technical solution for a company's online ticketing software. Collect and analyse stakeholder feedback on the code developed that focuses on usability, scalability and innovation. make it even better. 	<ol style="list-style-type: none"> Number (whole numbers - addition, multiplication, subtraction; approximation - estimating calculations). Number (whole numbers - order of operations). Algebra (sequences). Statistics (collecting data; analysing data). 	<ol style="list-style-type: none"> Number N/L2.2 Carry out calculations with numbers up to one million including strategies to check answers including estimation and approximation. Solving problems SMP/L2.3 Use knowledge and understanding to a required level of accuracy. Handling data HD/L2.1 Calculate the median and mode of a set of quantities.

Communication, all forms

Tasks:	GCSE English links:	Functional skills English L2 links:
<ol style="list-style-type: none"> Encourage process improvement and evaluation of new technologies, ideas and methodologies with team members. Contribute to the platform design process by securing input and feedback from different stakeholders. Deliver a presentation on how to use a wide range of modern technologies including Java, Scala, Node Angular and React. 	<ol style="list-style-type: none"> Spoken Language (discussion skills, listening to others and building on arguments). Analysing non-fiction (non-fiction text types - reviews; purpose and audience - purpose). Spoken Language (speaking and listening - audience and purpose, standard English; personal presentation - body language) gestures). 	<ol style="list-style-type: none"> Speaking, listening and communicating SLC/L2.6 Use language that is effective, accurate and appropriate to context and situation. Reading R/L2.3 Identify implicit and inferred meaning in texts. Speaking, listening and communicating SLC/L2.5 Communicate information, ideas and opinions clearly and effectively.