

Cyber Careers

Security Pathways

Software Engineer

The Work?

Word processors, web browsers and so much more have all been written by programmers- and most of these now connect to the internet. With a rich variety of ever changing programming languages, computer platforms and application types security is always a challenge to anyone taking up a career as a programmer

Skills and Interests

- Good Knowledge of Language
- Openness to learn new skills
- Ability to constantly re-learn in an ever changing environment
- Logical thought process
- Adaptable

Entry

Most Employers want to see evidence of existing work for programmers, you will need a portfolio of work demonstrating your creative and technical ability (mostly coding creativity). This can come in the form of a website or a CD/DVD

Many people enter this field after completing a degree in a subject related to programming, generally software engineering or computer science.

Although if you are a talented programmer, attending the right events can get you known enough to bypass this. Volunteering for work and talking to other programmers is usually invaluable, there are also a wide variety of apprenticeships available now to talented young people.

Wages

Salaries start at around £15,000 for a Junior Programmer to £38,000 for a senior role

What they say:

Cyber security is a challenge. It frequently makes headlines and concerns most of us. As a software engineer, I have to a unique opportunity to work closely with data scientists and subject matter experts to better understand threats and vulnerabilities

This experience makes me code more responsibly without giving up on all the fun programming is about.

Tomas, Software Engineer

