

# Ben Carpenter

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## Personal statement

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Final year Computer Science undergraduate with over 15 months of industrial experience in aerospace and MedTech software engineering. Proficient in C++, Python, and QT, with previous experience in delivering radar prototypes and automated testing solutions within Agile environments. Experienced with utilities such as Jenkins, Version Control (Git) and Visual Studio IDE. Seeking a challenging role to apply strong technical skills in full-lifecycle software development within a professional environment.

## Work Experience

### Industrial Placement Software Engineer, Leonardo

Newcastle (*July 2024 – July 2025*)

Leonardo focuses on the technologies in aerospace, defence and security. I worked at the Newcastle site and was focused on radar software development.

#### Responsibilities:

- Facilitated Agile processes as Scrum Master; led daily stand-ups, retrospectives, and presented weekly demos to project stakeholders, ensuring clear communication between technical teams and management.
- Developed functional radar prototypes using C++ and the QT framework, successfully implementing complex vector maps and map projections to enhance visual capabilities.
- Aided in overall radar software development, worked on UML designs, code implementation and automated Behaviour Driven Development testing.

### Junior Software and Support Engineer, Cognidox

Cambridge (*June 2023 – September 2023*)

Cognidox is a software company who develop and offers a cloud-based Document Management System for medical devices and high-tech product development.

#### Responsibilities:

- Developed and ran Selenium test scripts and Nagios server scripts, written in Python.
- Designed and deployed a visual customer support dashboard using HTML, CSS, and JavaScript. The tool presented correlations between ticket issues and industry types, enabling the support team to identify trends faster.
- Researched and documented potential AI tools to aid customer On-Boarding and support.

#### Achievements:

- Reduced manual testing time by implementing Python/Selenium scripts that validated system tasks. I aided with the completion of 100 automated tests, ensuring 100% test coverage prior to release.
- Evaluated and presented AI tools that could benefit customer support. My assessment focused on LLMs to support chatbots and tools which can aid in knowledge base creation.

## Technical Skills

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- **Languages:** C++, Python, Java, JavaScript, Haskell
  - **Frameworks:** QT, Selenium
  - **Developer Tools:** Git, Docker, Jenkins, Visual Studio IDE, Cmake
  - **Methodologies:** Agile (Scrum), Behaviour Driven Development, UML, SDLC

## Education and Qualifications

### Nottingham Trent University – BSc (Hons) Computer Science with Year in Industry (2022 – 2026)

#### Third Year – On track towards a First Class

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| <b>Final Year Project - C++/Qt</b><br>Currently working on a map projection visualiser.  | <b>Artificial Intelligence - Python</b><br>Developing an AI chatbot and expanding its functionalities.   |
| <b>Advanced Software Engineering - C++/Haskell</b><br>Understanding programming theory and software-development practices.         | <b>Service-Centric and Cloud Computing - Java</b><br>Developing a program which utilises Web/Restful services and message queues in a real-life distributed computing problem. |
| <b>Advanced Analysis and Design - C++/Qt</b><br>Developing a Smart Fridge program in a group, working under the Agile Methodology. |  |

#### Placement Year - Placement Diploma in Professional Practice – First Class

#### Second Year – Upper Second Class

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| <b>Software Engineering – C++</b><br>Manipulating and developing programs in Ubuntu.   | <b>Information &amp; Database Engineering - SQL</b><br>Learnt and manipulated SQL databases using Oracle Client.                  |
| <b>Software Design &amp; Implementation - C++</b><br>Developing and implementing a Weather Data Application.                         | <b>Systems Software - Java</b><br>Developed a cloud storage system in a team of two, utilising docker containerised environments. |
| <b>Foundations of AI &amp; Machine Learning - Python</b><br>Researching and presenting AI topic and working with datasets in Python. | <b>Project Management &amp; Professional Development</b><br>Learning how to apply technical skills in a professional manner.      |

#### First Year – Upper Second Class

### Ipswich School (2015 – 2022)

A-levels in Computer Science, Design Technology and Mathematics

## Hobbies & Interests

- Enjoy doing park run and going hiking.
- Active member of the Scuba Diving Society, currently working towards PADI Ocean Diver qualification.

## References

Tom Taylor | **Leonardo** – Senior Software Engineer | tom.taylor@leonardocompany.com

Joe Byrne | **Cognidox** – CEO | [joe.byrne@cognidox.com](mailto:joe.byrne@cognidox.com)