

Ben Carpenter

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Personal statement

I am an enthusiastic and reliable student who is currently studying for my final year of BSc Computer Science course at Nottingham Trent University. I have previous experience working as a software engineer for Leonardo and I am looking for a Graduate Scheme to further develop these skills.

Through my previous work and projects during my course, I have developed a passion for programming and software engineering. I'm proficient in C++, QT, Python, Java, JavaScript and very knowledgeable with the Agile Methodology. I've also used utilities such as Jenkins, Git Control and Visual Studio. I hope to use my Graduate Scheme to consolidate this passion and apply my technical skills to 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:

- Was Scrum Master on my team, held daily stand-ups, retrospective meetings and performed weekly demos to the head of projects.
- Developed radar prototypes using C++ and the QT framework, worked on vector map and map projection implementation.
- Aided in overall radar software development, worked on UML designs, code implementation and automated Behaviour Driven Development testing.

Achievements:

- Developed radar prototypes using C++ and the QT framework, worked on vector map implementation and GUI design.

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.
- Developed a visual customer support dashboard using HTML, CSS and JavaScript.
- Researched and documented potential AI tools to aid customer On-Boarding and support.

Achievements:

- The automated scripts highlighted whether specific tasks performed as expected. I was able to help finish the last 100 remaining tests.
- The dashboard handles support ticket data, visualising the correlations between ticket issues and the type of industries submitting them, shown through bar and area charts.
- I was able to provide research and assess how specific AI tools could benefit customer support. My assessment focused on LLMs to support chatbots and tools which can aid in knowledge base creation.

Education and Qualifications

Nottingham Trent University – BSc (Hons) in Computer Science (2022 – 2026)

Third Year

Final Year Project - C++/Qt

Currently working on a map projection visualiser.

Advanced Software Engineering - C++/Haskell

Understanding programming theory and software-development practices.

Advanced Analysis and Design - C++/Qt

Developing a Smart Fridge program in a group, working under the Agile Methodology.

Second Year - 2.1

Software Engineering - C++

Manipulating and developing programs in Ubuntu.

Software Design & Implementation - C++

Developing and implementing a Weather Data Application.

Foundations of AI & Machine Learning - Python

Researching and presenting AI topic and working with datasets in Python.

Artificial Intelligence - Python

Developing an AI chatbot and expanding its functionalities.

Service-Centric and Cloud Computing - Java

Developing a program which utilises Web/Restful services and message queues in a real-life distributed computing problem.

Information & Database Engineering - SQL

Learnt and manipulated SQL databases using Oracle Client.

Systems Software - Java

Developed a cloud storage system in a team of two, utilising docker containerised environments.

Project Management & Professional Development

Learning how to apply technical skills in a professional manner.

First Year – 2.1

Ipswich School (2015 – 2022)

A-levels:

- Design & Technology (Product Design) – A
- Computer Science – C
- Mathematics – D

Hobbies & Interests

- Enjoy doing park run and going hiking.
- Part of the Scuba Diving Society, trying to get my Ocean Diver qualification.

References

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

Joe Byrne | **Cognidox** – CEO | joe.byrne@cognidox.com