

# Sam Maughan

C# / .NET Software Engineer

Eastbourne (open to relocation)

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I have always enjoyed abstract thinking and problem solving, which is what first prompted me to learn computer programming. During my university degree, I chose to incorporate code into my coursework wherever possible: from exploring algorithmic music using SuperCollider, to empirical research using Python and R. I received great personal satisfaction from these projects, which has prompted me to develop my professional skillset as a software engineer.

## Technical Skills

- **Overview:** C#, .NET Framework, Python, Input/Output streams, Async C#, LINQ, Unit Testing using NUnit, Mocking using Moq, Microsoft Visual Studio, PowerShell, Git
- **Databases:** Relational Databases (Microsoft SQL Server, Transact SQL, SQLite), Basic ADO.NET, Object-relational mapping (ORM) using Entity Framework, Data Normalisation and Schema Design
- **Back End:** ASP.NET, Model-View-Controller (MVC), Authentication in ASP.NET Core, Middleware in ASP.NET Core, Containerisation using Docker
- **Front End:** HTML, CSS, Tailwind, DOM, Blazor, JavaScript, React
- **Cloud:** AWS, Netlify
- **General:** Object Oriented Programming, Design Patterns, Functional Programming, Test Driven Development, Pair Programming, System Architecture

## Projects

- [.NET TV Show Review App \(Group Project\)](#)
- [.NET Record Shop Web Application](#)
- [.NET Contact Manager Console Application](#)
- [Astro JS Personal Portfolio Site](#)
- [.NET Mars Rover Application](#)
- [HTML / CSS Landing Page](#)
- [JavaScript Rock Paper Scissors Game](#)
- [Python Kata Solutions](#)
- [Python Object Oriented Robot Game](#)

## Professional Development

- **Northcoders Software Development in C# Bootcamp**  
November 2024 – February 2025  
An intensive program teaching the skills needed for software development within the C# .Net ecosystem. It is heavily built around pair programming and industry best practice.
- **The Odin Project: Foundation Course**  
September 2024 – October 2024  
An open, self-taught curriculum teaching the fundamentals of web development using HTML, CSS, and JavaScript.
- **Python Programming MOOC 2024**  
July 2024 – October 2024  
An open, self-taught curriculum developed by the University of Helsinki, covering multi-paradigm programming using the Python language.

## Education

- **BA Music | First-Class Honours | Durham University**  
**Focus: Algorithmic Composition and Empirical Studies**  
September 2021 – June 2024  
Prizes and Distinctions:
  - *The Rosalind Dickinson Prize*, awarded to “an outstanding candidate”
  - *The Eve Myra Kisch Prize*, awarded for “proficiency in Music”
- **A-levels: Maths (A) Physics (A\*) Music (A\*)**  
September 2018 – June 2020

## Experience

- **Librarian, Durham University Palatinate Orchestra(s)**  
June 2023 – June 2024
  - Managed the organization and acquisition of sheet music for two classical orchestras totalling over one hundred musicians.
  - Worked as a part of a team to organize concerts, rehearsals, and logistics.
- **Musical Director, Josephine Butler College Folk Band**  
June 2022 – June 2023
  - Directed and arranged music to be performed by a small band,
  - Liaised with event managers to organize required equipment and technology.

## Hobbies and Interests

Outside of programming, I enjoy playing the clarinet and piano in orchestras, and composing music of my own. I also enjoy physical exercise and have a great interest in spending time outdoors.