

# 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

## 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.  
**Projects:**
  - [TV Show Review App \(Group Project\)](#)
  - [Record Shop Web Application](#)
  - [Contact Manager Console Application](#)
  - [Mars Rover Application](#)
- **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.

**Projects:**

- [Pure HTML / CSS Landing Page](#)
- [JavaScript Rock Paper Scissors Game](#)

- **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.

**Projects:**

- [Kata Solutions](#)
- [Object Oriented Robot Game](#)

## 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.