



# Sundhar Karunanidi



## ADDRESS

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## WEBSITE

<https://skarbot88.github.io/>

## About Me

I am a Backend Engineer with 6 years of experience in C#, ASP.Net (Framework and Core), JavaScript as well as experience in Python and CPP. I am moving cities to London and would like to find a long-term career role. The majority of work I have done has been for large scale enterprise CI/CD projects for clients such as Greene King, APM, Bet365 and Electrolux these are highly performant and secure applications. I have also worked in TDD/BDD projects. Previous I have worked with enterprise level CMS's. Recently I have been involved with the Node.js initiative as a mentee to further Node.js. I have been working with Azure and AWS trying to move closer to cloud technologies.

## Primary Technologies:

C#  
ASP.Net MVC/Core  
Azure Suite  
AWS Suite  
NUnit  
Umbraco  
SourceTree  
Relational & Non-Relational DBs  
Razor & Blazor  
CSS3  
HTML5

## Technologies I have delivered with...

TypeScript  
C Sharp  
AWS  
Azure  
Notion/Miro/Whiteboard  
Python  
Github/Gitlab/Dev Ops

## EXPERIENCE

March 2023 – Current

Software Engineer (C#, Typescript, SQL) • BJSS Ltd • Bristol, UK

### Course:

- AWS Cloud Developer
- Go Lang Basics

### What projects I worked on:

- Global Gambling Company - Software Engineer (Feb-2024 to present)
  - Project was an betting company internal project for logging staff enhancements (night shifts, overtime, absences etc). The project was primarily SQL and .NET Core with a React front-end. 100% unit tested and contract first approach to API design.
- National Resource Website - Tech Lead (Aug-2024 to Aug-2024)
  - Needed a technical lead to plan an upgrade from Umbraco 8 (.NET Framework) to Umbraco 13 (.Net Core). This was a small health check project to ensure their current code base was utilising Umbraco's latest offerings as well as following C# best practices. Delivered a health check report with timelines and details for mandatory, warning and potential work for the project.
- Major Government Health Organisation - Software Engineer (Sep-2023 to Feb-2024)
  - Completed greenfield project focused on delivering a data delivery API. The project was a serverless architecture built from the ground up. Using typescript (Nest-JS), AWS API gateway and lambdas. Security at every layer, integrating with Entra ID and setting up serverless test architecture locally using containerisation. Created pipelines for using Github Actions.
- Disruptor Utilities Company - Software Engineer (Apr-2023 to Aug-2023)
  - Focused on delivering water services B2B (now branching to multi utility). I was involved on a greenfield project to extend their services in providing multi utility services to businesses. Their main tool is a Multi Utility Broker Service that provides a portal/platform to generate quotes and manage their service offerings. The project was mainly in .Net 6 with a heavy focus on TDD and database schema design.
- BJSS – Green Engineer Project - Software Engineer (Mar-2023 to Jul-2023)
  - This internal project run by Jonathan Gill was to answer the questions how do we visualise carbon emissions generated by our code? and how can we then combat these carbon emissions through better coding practises and infrastructure strategy. Research project to track the carbon emissions of Python runtime lambdas, export monthly reports and find tools that would visualise.

Oct 2022 – March 2023

Software Engineer (C#, Python, CPP) • Vertical Aerospace • Bristol, UK

### Course:

- What is Modern Software Engineering? by Dave Farley
- AWS Solution Architect

### What I worked on:

- UML, Sequence and Block diagrams in order to design high quality clean code projects in Python and C#.
- Python test suite for packet integrity checks. Involves generating test data using config, generating shell scripts to call packages, parsing packets to a Pytest application to verify average transmission rate per datagram and payload integrity against a pre generated datagram.

- Modifying on board data system and create a data network streaming CPP application.
- Designing network capture C# parsers for to be decoded further downstream, this project was made using a TDD.
- Discussing and developing aircraft configurations.
- Creating an API for Vertiports booking system in .NET Project using Blazor.
- Operating with a high level of autonomy including picking up simple stubs and breaking them down into manageable tasks.
- Extending unit test suites as part of definition of done.
- Learning the basics of Docker containerisation, but still in the process of implementing it into a build pipeline (requires a bit more learning)

Jun 2021 – Oct 2022

Backend Engineer/ .Net Developer • Felinesoft • Bristol, UK

Courses:

- Data Structures Algorithms Coding with Mosh
- C# Mastery Coding With Mosh
- AWS Cloud Certified Practitioner Udemy

What I worked on:

- Working in a sprint team with more responsibility and autonomy, whilst working closely with the client and their CRM and UAT teams.
- Writing clean and concise object oriented code C# using SOLID and DRY principles.
- Developed large scale assessment tools with comparison matrix, Association for Project Manager (APM) Continuous Professional Development tool, extended members platform for APM, interactive bookshop and booking system for events as well as many other website functionalities.
- Maintained and extended the websites whilst using reverse proxies and rewrite rules to simultaneously run two instances of Umbraco (different versions) and website as part of a migration project to clean legacy code and migrate user information from CRMs, CMS and SQL storage.
- Built video, image and news/blogs sitemaps requiring a recursive function to crawl over both instances of the website and write out the XML.
- Delivered projects with Azure products such as table storage, blob storage, CosmosDb, SQL storage, ADdb2c, AppInsights. Also setting up and managing resources within Azure. Primary focus was learning AzureVirtualMachines (Azure Iaas).
- Extended the unit test suite by 25% using NUnit.
- Implementing Redis Cache for storing database queries.
- Working with a PRO8 CRM API to fetch data which was then mapped to CMS and used on the website.
- Writing SQL queries including Common Table Expressions in SQL Server 2014
- Managing releases using the GitFlow principle (also used version control software to help with this).
- Mentoring junior developers.
- Extending Umbraco programmatically (C#) and creating custom controllers using AngularJS.

Side Projects:

- Created a restaurant booking app with cart and menu. Was used to practice database creation, querying and also entity framework. Written in C#, HTML and CSS.

Nov 2019 - Jun 2021

Web Developer/Full Stack/Programmer • Zone Digital • Bristol, UK

Certifications:

- 98-375: MTA: Application Development Fundamentals
- BCS Level 4 Diploma in Software Development Methodologies

What I worked on:

- Created a Configuration Viewer Tool in EpiServer for Electrolux to allow editors to see configurations for all brands and markets, using C# ASP.Net.
- Maintaining Microservices, such as Events Portal and Book a Table at enterprise level for Greene King using React JavaScript library.
- Improving core web vitals through implementing lazy loading site wide.
- Working in a CI pipeline and learning how to deliver using the CD pipeline
- Removing legacy code and previous services from solution and CMS to clear Umbraco Error Logs.
- Extending websites using the Episerver and Umbraco CMS platforms.
- Participating in an Agile multidisciplinary team to contribute to stand ups, refinements, retrospectives, planning, example mapping (Gherkin and BDD) and demos to clients.

- Developing and extending front-end website functionality using JavaScript, HTML5, React and CSS3
- Using Confluence to update documentation and use JIRA to manage workflow efficiently.
- Experience using DataDog log management and APM.

#### Side Projects:

- Created an online CRUD application for team members to create and track training requests. Achieved using ASP.Net MVC (C#), Identity Framework and Razor. I also created a relational database and entity relationship diagrams.

Jan 2017 – Nov 2019

#### WordPress Web Development • Self Employed • Bristol, UK

##### What I worked on:

- Designing and building WordPress websites using Elementor.
- Giving local small scale businesses an online presence.
- Build simple CSS and HTML blocks.
- Teach clients how to maintain and improve their own websites using a CMS.

## EDUCATION

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#### University of Bristol – Aerospace Engineering (HND) – Bristol, UK

##### Transferable skills:

- Design and Computing - (C Programming Basics and CAD design work)
- Engineering Mathematics 1 & 2 - (Statistical Modeling and Algebraic Concepts)

\*PLEASE HAVE A LOOK AT MY GITHUB PAGES WEBSITE.