

SHAUN BROOMFIELD

Software Engineer

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in ShaunBroomfield
🔗 Broomfields

WHO AM I?

I'm a full-stack Software Engineer with a predominant background in developing SCADA software for the Windows operating system. My deep-rooted expertise is within the Microsoft ecosystem, leveraging tools like C, C++, C++/CLI, SQL Server, MFC, and .NET Framework.

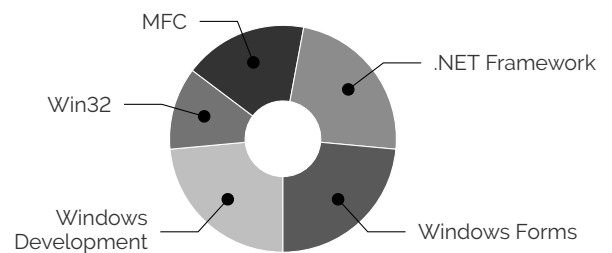
Currently, my professional role involves crafting a SCADA software product that embodies a Micro-Services-like architecture on the Windows platform. This sophisticated system comprises hundreds of intertwined programs, drivers, and services that synchronise seamlessly. Their collaboration relies on data-modules, queues, stacks, pools, and an integration of both relational and in-house non-relational databases, ultimately furnishing a comprehensive SCADA solution across one or multiple Windows machines.

Outside of my professional realm, I possess a broad curiosity for various programming fields. While I have some experience tinkering in web and app development, my primary personal pursuits revolve around systems-level languages, libraries, and frameworks. This has led me to explore the intricacies of graphics programming, physics programming, embedded systems, and other related computing arenas.

PROGRAMMING LANGUAGE EXPERIENCE



PLATFORM DEVELOPMENT EXPERIENCE



CAREER

1/2020 – Present
3 Years 8 Months





Software Engineer
Billingham, England, United Kingdom

Tascomp

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in Tascomp

6/2019 – 1/2020 8 Months	Apprentice Software Engineer Billingham, England, United Kingdom	Tascomp
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<div>  tascomp.com  Tascomp </div>		
2/2019 – 4/2019 2 Months	Apprentice Web Developer Middlesbrough, England, United Kingdom	Admit Me
<p>During this apprenticeship, I expanded my knowledge beyond basic HTML, CSS, and JS by immersing myself in a range of new platforms, concepts, languages, and frameworks. While this role offered invaluable insights, the tenure was brief due to the start-up's instability, which proved challenging for apprenticeship growth.</p>		
7/2018 – 1/2019 7 Months	Apprentice Software Engineer Seamer, England, United Kingdom	Labman Automation
<p>About a week after finishing my GCSEs, 16 years old and fresh out of school, I started my career at a robotics company and was ready for whatever the world could throw at me. Since working at Labman was my first ever "real" job, I wasn't quite</p>		
<div>  labmanautomation.com  Labman-Automation-Ltd </div>		

EDUCATION

9/2022 – 9/2025	Bachelor's Degree in Computer Software Engineering (In Progress)	Teesside University
12/2018 – 12/2020	C&G Level 3 Diploma in ICT Professional Competence Computer Software Engineering	Middlesbrough College
7/2016	Royal Institution Engineering Masterclasses	The Royal Institution

CERTIFICATES

12/2019	Certificate of Unit Credit Towards Level 3 in ICT Systems and Principles	City & Guilds
12/2019	Level 3 Certificate in ICT Systems and Principles	City & Guilds
12/2019	Certificate of Unit Credit Towards Level 3 Diploma in ICT Professional Competence	City & Guilds
12/2019	Level 3 Diploma in ICT Professional Competence	City & Guilds
12/2019	Level 3 Diploma in ICT Professional Competence	City & Guilds

LANGUAGES

English - native

FORMS OF WORK

Office

Hybrid

Remote

When it comes to where I work, I don't mind working in an office, working from home, or a bit of both.

As long as my commute doesn't take 2 hours, I'm happy to travel for work!

HOBBIES

At the heart of my hobbies lies a theme: creation. It's the common thread that ties together my diverse interests.

In the world of 3D Printing and Modelling using SCAD, I enjoy transforming a digital design into something tangible, be it a functional item, prop, or detailed model.

Similarly, while programming, I find joy in crafting lines of programming into functional solutions, bringing digital creation to life and often interacting with the real world in some shape or form.

This drive to create even extends to my kitchen adventures. Recently, cooking has become another avenue for me to experiment and express, using ingredients to explore delicious expressions of different cultures.

When I need a moment's pause from creating, I take refuge in the worlds of Sci-Fi, Fantasy, and Mythology through audio books. They offer an escape and often reignite my creative spark.

PROGRAMMING JOURNEY

Primary School

Lua with ComputerCraft

Personal

My initiation into the world of programming began in 2012, thanks to Minecraft. I delved into modded Minecraft and stumbled upon ComputerCraft, a mod that ingeniously incorporated DOS-like computers within the game. Fascinatingly, these virtual computers were programmable using Lua, enabling me to tinker with existing programs and eventually create and execute my first programs.

Lua

Secondary School

Exploring core programming concepts through different languages

Personal and Education

Early in my secondary school days, I was introduced to a few graphical programming languages. These primarily consisted of drag-and-drop interfaces designed for script construction. However, the real intrigue came a couple of years later, when I encountered Visual Basic. Here, I embarked on creating console-based conversational trees, deepening my understanding of logical flows and interactivity.

My enthusiasm for Minecraft did not wane; in fact, it spurred a personal challenge. Determined to put my own spin on the game, I delved into Java, teaching myself through a plethora of online tutorials. My perseverance bore fruit as I successfully managed to both create new Minecraft mods and recreate existing ones, allowing me to tailor my gameplay experience and furthering my programming prowess.

My GCSE years in secondary school marked another milestone in my programming journey. I was introduced to Python 2.7 in my computer science class, which further refined my programming skills and expanded my knowledge of software development principles.

Java

Visual Basic

Python 2.7

College

C# and Beyond in Apprenticeship

Education

Upon completing secondary school, I wasted no time and immediately began my first apprenticeship. The academic facet of this apprenticeship acquainted me with C# among other languages, enriching my repertoire and preparing me for the myriad challenges and innovations in the tech industry.

C#

SQL

HTML

CSS

JS

Labman	<Insert Header> <Insert Description> <div>C#SQL</div>	Work
AdmitMe	<Insert Header> <Insert Description> <div>Ruby On RailsHTMLSCSS</div>	Work
University	<Insert Header> <Insert Description> <div>JavaGitMarkdownLaTeX</div>	Education
Personal Projects	<Insert Header> <Insert Description> <div>LuaJavaDartFlutterRustSCADC++BashLinux</div>	Personal
Tascomp	<Insert Header> <Insert Description> <div>C++C++/CLIMFC.NETSLANGSQL ServerWin32</div>	Work

REFERENCES

Ashley Tizard	Managing Director <div> Ashley-Tizard</div>	Tascomp Limited
Steven Tilly	Lead Software Development Engineer <div> Steven-Tilly-8282141a</div>	Tascomp Limited
George Priestner	Senior Software Engineer <div> George-P-5aa9385a</div>	Eaton
Rhys Maddren	Graduate Developer <div> Rhys-Maddren-133a7b151/</div>	Sage