

SHAUN BROOMFIELD

Software Engineer

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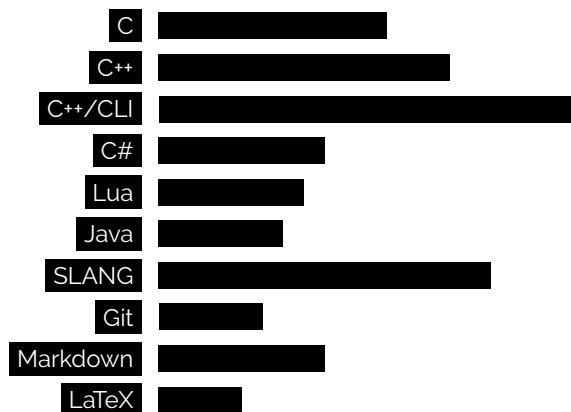
WHO AM I?

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.

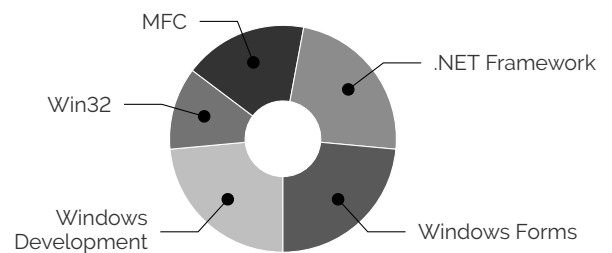
Currently, my professional role involves crafting a SCADA software product that embodies a Micro-Services-like architecture on the Windows platform. This sophisticated system comprises hundreds of intertwined programs, drivers, and services that synchronise seamlessly. Their collaboration relies on data-modules, 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 includes an interest in the intricacies of graphics programming, physics programming, embedded systems, and other related computing arenas.

PROGRAMMING LANGUAGE EXPERIENCE



PLATFORM DEVELOPMENT EXPERIENCE



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.

CAREER

1/2020 – Present
3 Years 8 Months

Software Engineer

Billingham, England, United Kingdom

Tascomp Limited

- ◆ Spearheaded the maintenance and enhancement of the company's MFC-Dialogue-based IDE for the domain language 'SLANG', notably integrating undo/redo and source control features.
- ◆ Orchestrated the design, development, testing, and documentation of key user-facing SCADA interface applications and several full-stack internal tools.
- ◆ Developed numerous bespoke full-stack applications using MFC-based C++ and .NET Framework's Windows Forms for the front-end, tailored to client needs within the company's micro-service architected SCADA product on the Windows platform.
- ◆ Formulated custom MFC-based C++ drivers to complement large SCADA systems.
- ◆ Conducted rigorous and documented pre-FAT tests for airport SCADA systems, playing a pivotal role in crafting some of their accompanying documentation.
- ◆ Pioneered several 'SLANG Extensions', leveraging MFC-based C++ to enrich the 'SLANG' language with standard library functions.

6/2019 – 1/2020
8 Months

Apprentice Software Engineer

- ◆ Rectified a critical vulnerability by writing an iteration of a core 'C' file decryption library and deprecating the former.
- ◆ Conceptualised and implemented state-of-the-art SCADA solutions, utilising procedural finite-state-machine driven approaches in the 'SLANG' domain language.
- ◆ Produced bespoke MFC-based C++ front-end and back-end solutions for the Windows platform, ensuring integration with our micro-service architecture.
- ◆ Assembled and configured Windows PC systems for diverse customer needs.



tascomp.com



Tascomp Limited

2/2019 – 4/2019
2 Months

Apprentice Web Developer

Middlesbrough, England, United Kingdom

Admit Me

- ◆ Drove online commerce growth by populating a comprehensive product database for a client's Pet Store:
 - ❖ Streamlined data by web scraping multiple specified sources and integrating into a centralised Postgres database.
 - ❖ Employed Ruby-On-Rails in conjunction with Bootstrap to present database content seamlessly.
- ◆ Harnessed Ruby-On-Rails and Bootstrap expertise to devise intuitive web forms for the company's music event ticketing platform.

■ No contact information as the company no longer exists.

7/2018 – 1/2019
7 Months

Apprentice Software Engineer
Seamer, England, United Kingdom

Labman Automation

- ◆ Facilitated a range of internal IT operations, enhancing system efficiency.
- ◆ Collaborated on a cutting-edge and bespoke medicinal fabrication system:
 - ❖ Delved into Beckhoff IPC Programming using Structured Text and Ladder Logic to communicate with an OceanOptics spectrometer over Modbus TCP/IP.
 - ❖ Crafted efficient MySQL Stored Procedures to be utilised by concurrent C++ development on the same project.



labmanautomation.com



Labman-Automation-Ltd

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

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City & Guilds

12/2019

Level 3 Diploma in ICT Professional Competence

City & Guilds

REFERENCES

Ashley Tizard

Managing Director



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Ashley-Tizard

Tascomp Limited

Steven Tilly

Lead Software Development Engineer



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Tascomp Limited

George Priestner

Senior Software Engineer



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George-P-5aa9385a

Eaton

Rhys Maddren

Graduate Developer



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