

Samuel Felton

📞 07565328118 • ✉ sf.samfelton@icloud.com • 🌐 about.samfelton.com
in SamFelton

Programming Experience

Languages: C#, JavaScript, TypeScript, SQL, Ruby, VBScript, Golang, Python, Java

Technologies: dotNET, HTMX, Razor pages, Azure DevOps, CSS, jQuery, Node, React.js, Ruby on Rails, Cloudflare, Figma

Work Experience

E-Commerce Developer, EVO Group

October 2023 - Present

Load Balancer Reverse Proxy

- Built a custom reverse proxy to provide zero-downtime deployment and A/B testing for multiple e-commerce sites.
- Used **YARP** to Build a load balancer in **C#** to sustain performance in periods of intense network traffic.
- Designed and implemented a **dotNET API** to read and modify the load balancer's state.
- Used **Razor pages** and **HTMX** to build a user interface to enable, disable and drain servers managed with our load balancer.
- Ensured end-to-end security with **Windows AD** authentication.
- Built a CI/CD pipeline using **Azure DevOps** to publish web service changes to an onsite server.

Braintree Payment service

- Used the **Braintree payment API** and **dotNET Core** to build and integrate Apple Pay into a well known e-commerce site.
- Deployed the **dotNET Core** app with **Azure DevOps** and **IIS**.

Legacy System Maintenance

- Developed and maintained 6 in-house, bespoke e-commerce websites.

Full Stack Developer, University of Sheffield

July 2021 - March 2023

Post Graduate Report System

- Prototyped and deployed a comprehensive form distribution website with **Ruby on Rails** and **Postgres** to track PhD students in the Engineering Faculty.
- Identified high impact needs in **weekly client meetings**.
- Lead the design team to build **Moqups wire-frames**.
- Grew the app from a site in one department into a faculty wide system.

Part-Time Web Developer, System Serve

July 2019 - October 2023

Automated Webpage Builder (XDT)

- Built a custom web page builder in **VBScript** to automate writing the full stack necessary to present client data in tables and lists.
- Refactored a legacy system, ensuring 100% backwards compatibility.
- Obeyed strict coding standards to maintain scalability and flexibility.

Google Maps Webpage

- Used the **Google Maps API** Platform and **Javascript** to Design and develop a map display widget for websites.
- Wrote an algorithm to make densely clustered map markers more legible. Optimised runtime of map marker algorithm **100-fold**.

Diocese of Winchester Inventory Database

- Used **SQL Server** to build an inventory management database for a collection of Church of England Diocese.
- Developed an import routine with **VBScript** and **SQL** to transfer a decade of data into the new database.

Student Demonstrator, University of Sheffield

September 2021 - December 2021

- Assisted 2nd year computer science students in their Haskell programming assignment.
- Provided insight and experience with **Haskell** to help students find solutions for their projects.

Education

MCOMP Computer Science, 2.1, University of Sheffield

September 2019 - June 2023

Dissertation: Identifying Potentially Idiomatic Expressions

- Used **Tensorflow** and **Python** to Implement a state-of-the-art transformer based large language model.
- Compared and evaluated each model's ability to represent idiomatic language.

Event Management System

- Implemented an accessible **Ruby on Rails** and **Postgres** event management site.
- Lead the team to construct mockups for brand and site design with **Figma**.
- 85% Test coverage with **RSpec Unit Tests** and 96.4% average usability with Lighthouse overview.

Police Case Management Web App

- Built a dummy police case collaboration web app with a team of developers.
- Used the **MERN** (Mongo, Express, React, Node.js) Stack to Implement as a **Progressive Web App**.

Global Engineering Challenge

- Presented a public health app to a panel of experts with a group of engineers.
- Received the "Best Communicated Solution" award.

Colchester Sixth Form College

September 2017 - June 2019

- A-Level Computer Science: A
- A-Level Electronics: A*
- A-Level Mathematics: A

Philip Morant School and College

September 2012 - June 2017

12 GCSEs from A*-C including Grade 8 in Mathematics and Grade 7 in English Language.

Extracurricular Activities

Computer Science Society

2022-23

Secretary

Elected to organise meetings and events for the UoS Computer Science Society.

ShefJam 9

- Lead a subcommittee to host a 3 day game jam.
- Liaised with sponsors to organise prizes for attendees.

Music

- Rockscool Grade 6: Electric Guitar
- Trinity College London Grade 5: Drum Kit

Personal Projects

Sharrow Vale Small Businesses directory

2024 - Present

- Built a searchable directory of small businesses for the restaurants, cafes and shops on Sharrow Vale road using **Javascript** and **Webflow**.

Stockmarket

2024

<https://github.com/SamFeltip/stockmarket>

- Used **Golang** and **HTMX** to Recreated the 80s boardgame Stockmarket as a PWA.
- Collaborated with a design team to build a frontend according to **Figma** mockups.
- Worked with a team to play-test and evolve the app.

Bingo

2023

<https://about.samfelton.com/projects/bingo>

- Built a multiplayer bingo progressive web app using **React.js**.
- Deployed **Docker** projects to a home server
- Used **Typescript** to build an API for a **Postgres** database

Full stack Typescript app (Speakout)

2023

<https://github.com/SamFeltip/SpeakOut>

- Built a twitter clone using **Typescript** with **NextJS**, **React.js**, Tailwind, Prisma and Postgres.
- Deployed the project as a **serverless app** to Vercel.

Personal Qualities

- Weekly Badminton player.
- Can solve a Rubik's Cube in a minute and a half.
- Played bass, drums and guitar for over 6 years.