

Samuel Felton

SOFTWARE ENGINEER · FULL-STACK WEB DEVELOPER

+447565328118 contact@samfelton.com https://samfelton.com SamFeltip Samuel Felton

Skills

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

Technologies dotNET, Vue.js, Azure DevOps, CSS, jQuery, Node, React.js, Cloudflare, Figma

Experience

Software Engineer

Remote, UK

SALAMANDERSOFT LTD

2024 - Present

- Lead the design and implementation of a custom **RBAC** role-based authentication system for a large **dotNET** web app.
- Assisted Refactoring a legacy **dotNET** web app to a modern **Vue.js & TypeScript** frontend with a serverless **Azure Functions** backend.
- Built a custom content management system for management of app config using **dotNET** and **Azure Storage** for use by our Ops team.
- Contributed to reducing the backlog on a legacy **dotNET** cli for assisting schools manage hundreds or thousands of user accounts.

E-Commerce Developer

Sheffield, UK

EVO GROUP

2023 - 2024

- Built a custom reverse proxy using **YARP** and **C#** to support zero-downtime deployments and A/B testing across multiple e-commerce platforms.
- Developed a dynamic **dotNET API** with a **Razor Pages** and **HTMX** frontend for real-time control over server load balancing.
- Integrated Apple Pay into a major e-commerce site using the **Braintree API** and deployed via **Azure DevOps** and **IIS**.
- Maintained and enhanced 6 bespoke legacy e-commerce systems, ensuring high availability and consistent performance.

Full Stack Developer

Sheffield, UK

UNIVERSITY OF SHEFFIELD: POST GRADUATE REPORT SYSTEM

July 2021 - March 2023

- Prototyped and deployed a full-featured form tracking system using **Ruby on Rails** and **Postgres** to support PhD student oversight in the Engineering Faculty.
- Led the design team in creating user-centric wireframes with **Moqups**.
- Collaborated in weekly client meetings to identify high-impact requirements and guide feature development.
- Scaled the platform from a departmental tool to a faculty-wide system adopted across multiple units.

Part-Time Web Developer

Kingston, London

SYSTEM SERVE

July 2019 - October 2023

- Built a custom full-stack webpage builder in **VBScript** to automate generation of dynamic data views, replacing manual development workflows.
- Refactored a legacy system for full backward compatibility while improving maintainability and scalability.
- Designed a performant map marker clustering algorithm using the **Google Maps API** and **JavaScript**, achieving a 100x runtime improvement.
- Engineered an inventory database for the Church of England using **SQL Server** and automated a decade of data migration with **VBScript**.

Education

University of Sheffield

Sheffield, UK

MCOMP IN COMPUTER SCIENCE (2:1)

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. Led the team to design brand and site mockups with **Figma**. Achieved 85% test coverage with **RSpec Unit Tests** and 96.4% average usability using Lighthouse.
- Police Case Management Web App Built a dummy police case collaboration web app as a team using the **MERN** stack (Mongo, Express, React, Node.js) and implemented it 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

Colchester, UK

A-LEVELS

September 2017 - June 2019

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

Projects

FormFlow

v0-form-building-website.vercel.app/

DESIGNER AND SOFTWARE DEVELOPER

2025

- Developed a form builder and management system for schools to create and manage custom form workflows.
- Built with **React Next.js**, **drizzle** and **Tailwind**, hosted on **Vercel**.

Sharrow Vale Small Businesses Directory

sharrowvale.co.uk

DESIGNER AND SOFTWARE DEVELOPER

2024 - 2025

- Built a searchable directory of small businesses for restaurants, cafes, and shops on Sharrow Vale Road using **Typescript** and **Astro**.
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Stockmarket (80s Board Game PWA)

 SamFeltip/stockmarket

FULL-STACK DEVELOPER

2024

- Used **Golang** and **HTMX** to recreate the 80s board game Stockmarket as a progressive web app.
- Collaborated with a design team to build the frontend based on **Figma** mockups.
- Worked with a team to play-test and iterate on the app.

Bingo Multiplayer App

about.samfelton.com/projects/bingo

FULL-STACK DEVELOPER

2023

- 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.

SpeakOut (Full Stack Twitter Clone)

 SamFeltip/SpeakOut

FULL-STACK DEVELOPER

2023

- Built a Twitter clone using **TypeScript** with **Next.js**, **React.js**, **Tailwind CSS**, **Prisma**, and **Postgres**.
- Deployed the project as a **serverless app** to Vercel.