Samuel **Felton**

SOFTWARE ENGINEER · FULL-STACK WEB DEVELOPER

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Skills

Languages	C#, TypeScript, JavaScript, SQL, Ruby, VBScript, Golang, Python, Java
Technologies	dotNET, Vue.js, Azure DevOps, CSS, React.js, jQuery, Node, Cloudflare, Figma

Experience

Software Engineer   Remote, UK

SALAMANDERSOFT LTD   2024 - Present

- Assisted the Refactoring of a legacy **dotNET** web app to a modern **Vue.js & TypeScript** frontend with a serverless **Azure Functions** backend.
- Lead the design and implementation of a custom **RBAC** role-based authentication system for a large **dotNET** web app.
- 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 **dotNET** cli for assisting schools manage hundreds 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 comprehensive form distribution website to track PhD students in the Engineering Faculty with **Ruby on Rails** and **Postgres**.
- Led the design team in creating wireframes with **Moqups**.
- Grew the app from a site in one department into a faculty wide system.

Part-Time Web Developer   Kingston, London

SYSTEM SERVE   July 2019 - October 2023

- Built a custom web page builder to automate writing the full stack necessary to present client data in tables and lists.
- Designed and developed a map display widget for websites using the Google Maps API Platform and Javascript, updating the existing infrastrucure

Designed a performant map marker clustering algorithm using the **Google Maps API** and **JavaScript**.

- Wrote a migration script to move church inventory data from a collection of spreadsheets to an **SQL Server** database 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 submission and approval timelines.
- 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**.

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 designer to build a frontend based on Figma designs.
- Iterated on the app interface following play-testing.

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.