

# Sophie Roe

## Software Developer - Bristol

Portfolio: <https://sophieroe95.github.io/portfolio>

Github: <https://github.com/sophieroe95>

### PROFILE

For the past 3.5 years I have worked at Techmodal building web applications to solve problems in the defence and logistics domain.

### SKILLS

**Application Development:** HTML, CSS, JavaScript, React, Remix, TypeScript, Git, GitHub, GitLab, Jira, Zod, Express, MaterialUI, Blueprint, D3, Leaflet, Turf, Oracle APEX

**Testing:** Playwright, Jest, Cypress, Vitest, Synk, SonarQube

**Back-end Development:** Node, PostgreSQL, SQL Server, SQLite, Prisma, Oracle SQL Developer

**CI/CD:** Docker, Vite, Fly.io

### EDUCATION

2020: \_nology 3 month Full Stack Software Development course

2014-2019: University of Birmingham, Medical Studies 2.1.

2007-2014: Redland High School for Girls. A Level: Biology A\*, Chemistry A\*, Physics A\*. AS Level: Mathematics A. GCSEs: 8.5 A\* grades including Mathematics and English Literature, 2 A grades.

### EXPERIENCE

**Amoeba:** Amoeba, built using Remix, applies complex calculations to ascertain transit times from points dropped on a map. I led the front-end development by producing a wireframe of an optimal user interface, created and prioritised GitHub issues and led review meetings with the Product Owner. I produced reusable components, helped team members with issues and reviewed pull requests. I aided in the amoeba creation function using Dijkstra's algorithm considering the curvature of the earth, no access zones and visualisation on a Leaflet Map using the Web Mercator projection.

**Desk Booking:** The app enables employees to book desks ahead of time in a hotdesking environment and know where their colleagues are sitting to enable collaborative working. It also shows HR analytics of office utilisation and whether there are sufficient first aiders and fire marshals in the office each day. It allows certain users to book seats for guests and book reserved desks. I assisted in creating the floorplan component from a Figma design exported as an SVG, with Material UI components, user avatars and click handlers. We used a mobile first design so employees can use the application on any device.

**TALOS:** Application built using React, NestJS and MS SQL Server to allow a user to build a scenario depicting the transit and activities of organisations. The application then runs a series of calculations to output information including the deployment day, total cost, carbon analysis, consumption and sustainment analysis and stock depletion day.

**Capability Catalogue:** I co-built and then independently maintained the Capability Catalogue: an internal skills and experience tracking platform. Users can add experiences and relevant tags, search profiles and download filtered reports. Responsibilities included: bug fixing, designing and styling pages, creating views and improving existing code through plug-ins and packages.