Danielle Mcloughlin

Junior Software Engineer

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Profile

I'm a developer who sees every bug as a Sudoku puzzle waiting to be solved and every new framework as a superpower waiting to be unlocked. My pattern-recognition mindset means I absorb new technologies fast - what takes others weeks often clicks for me in days.

After a detour through animal care and early parenthood, I found my way back to the STEM-obsessed kid who built custom Unreal Tournament maps and experimented with in-game console commands - using command line interfaces before I even knew what they were called.

Now, as a parent of two, I bring empathy and user-focused thinking to everything I build. I'm especially passionate about creating technology that works for everyone, including neurodiverse users. **Ask me how being faster than 99% of Sudoku players makes me a better debugger.**

Skills

Languages & Frameworks:
JavaScript (ES6+), TypeScript, HTML, CSS, SQL

Front-end:
React, Next.js, Storybook, Clerk, Tailwind CSS

Back-end:
Node.js, Express.js, PostgreSQL, Supabase, RESTful APIs, Socket.IO

Testing & Quality Assurance:
Playwright, React Testing Library, Vitest, Jest, Postman, CodeQL, Husky

DevOps & Deployment:
Docker, GitHub Actions, Vercel, Render, Terraform(IaC), Snyk, Dependabot

Tools and Workflow:
Git, CI/CD, Figma / FigJam, Jira, Miro

Professional Experience

Full-stack Software Engineer Bootcamp — Remote, UK
School of Code

One of **40 people selected from over 2000 applicants** for the final cohort of this competitive 16-week intensive programme.

- Collaborated in new **agile teams** each week to ideate, design, and build full-stack applications.
- Delivered projects using Node.js, Express, React, PostgreSQL, Tailwind, and deployment platforms such as Vercel and Render.
- Engaged in **pair programming**, daily standups, and weekly **hackathons** including presentations to mentors and industry professionals.
- Followed **best practices**: version control, documentation, accessibility, semantic code, and test-driven development.

Projects

Shelf Life — 03/2025
Tech Stack: React, Next.js, TypeScript, Supabase, OpenAI
A web application that tracks grocery expiration dates and generates AI-powered recipe suggestions to help users reduce waste and optimise meal planning.

- **User Authentication:** Secure sign-ins and account management using Supabase.

- **AI Recipe Suggestions:** Uses OpenAI to create recipes based on the user's available ingredients.
- **Expiry Date Tracking:** Logs groceries, tracks expiration dates, and categorises ingredients automatically.

Future Plans:
- Integrate a **barcode scanner** for effortless grocery logging.

Chat Hive 03/2025
Tech: React, TypeScript, Socket.io, Next.js, AWS EC2
A real-time chat application built with Socket.IO , designed to explore websockets, event-driven communication, and AWS cloud deployment.

- **Real-time Messaging:** Users can send and receive messages instantly, with sender usernames displayed alongside each message.
- **User Identity:** Users choose a custom username and see the list of online participants.
- **AWS Hosting:** Hosted on an AWS EC2 instance for experience with cloud hosting, deployment, and server management.

Future Plans:
- Implement **message persistence** to store chat history across sessions.

SnapStem 02/2025
Tech: TypeScript, React, Next.js, Pinecone, Open AI
A plant identification and care-advice app that uses vector search and AI to recognise plants from user photos and offer personalised plant care guidance.

- **AI Plant Identification:** Uses OpenAI models to identify plant species and generate detailed care information.
- **Pinecone Vector Search:** Stores plant data as vectors in Pinecone for fast, accurate retrieval and matching.
- **PlantPal Chatbot:** An integrated OpenAI-powered assistant for plant questions and personalised guidance.

Future Plans:
- Add **plant care tracking**, including reminders for watering, fertilising, and pruning.

Please view my portfolio for more projects!

Past Experience

Data Inputting Wakefield, West Yorkshire
Nationwide Data Collection
- **Hand-selected by management for high-profile projects** due to exceptional speed and accuracy, working directly in managers' offices on time-sensitive data requiring meticulous attention to detail.
- **Identified and resolved data inconsistencies** proactively, implementing process improvements that enhanced team efficiency and data quality.
- **Developed advanced pattern-recognition skills** through high-volume data work—the same cognitive abilities that now power my debugging, code review, and problem-solving as a developer.

Continuous Learning

Community
Meetups

Listening
Women in STEM podcast

Reading
Small Pieces Loosely Joined: A Unified Theory of the Web

Courses
Advanced JavaScript - Scrimba
Introduction to Clean Code - Scrimba
AWS Cloud Practitioner Essentials