

# Steven Waterman

Technical Coach

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I'm a Software Engineer with a history of ignoring job descriptions. While I *could* just write the code myself, I'm happier and more impactful when I spend my time helping others. I want to support your product teams, getting my hands dirty and building a culture of technical excellence.

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## How I Help

## Impact

Your values say openness and transparency, but nobody got the memo. You want tight-knit teams of friends, but got competing silos. You try and learn from failure, but everyone's busy assigning blame. Your trickle-down culture... doesn't.

You also need to develop *norms* - the way your company operates on the ground level. All too often, we just announce some values and call it a day. You need someone working bottom-up to align your norms and values.

I believe in the power of a strong company culture. It can transform teams, uniting them for a common goal, and solving issues before they start. But culture isn't just about your values.

As a Technical Coach, I cut across teams and hierarchy to help them resolve issues in the day-to-day work. I exemplify your values, and show that there *is* a better way of doing things.

## Duties

Coaching is a constant cycle of listening to people, understanding the issues they face, and supporting them to fix it. That could mean pair-programming, hosting workshops, or just raising it with leadership. The focus is always on continuous improvement through teamwork.

I'm not a manager, don't lead a team, and don't have any authority on-project. I'm a resource for people to use, helping them figure out the answer for themselves. Sitting outside the hierarchy, I can transcend any bureaucracy and get information where it needs to go, keeping everyone aligned.

## Skills

## Technical

My core expertise is full-stack web development, with specialisms in developer experience, API design, and semantic type constraints.

I won't be an expert, but I'll know enough to work with experts. There's too much to list, but here are some of the stranger things I've got up to:

As a generalist, my most important skill is the ability to learn quickly by relying on my past experiences. I can see similarities between tasks and apply knowledge from one area to another.

- Prototyping Electronics (CAD/CAM, Electronics)
- Financial Modeling (Statistics, AI/ML)
- Logo Design (Vector / Raster Graphics)
- Making Background Audio (Music Production)

## Soft Skills

I always prioritise my ability to express myself clearly. My tech blog has a small following, with a few viral hits. A history in improvised comedy means I'm a calm and adaptable presenter, often giving tech talks or live-coding on Twitch.

While Tech and development are my home, I'm currently running my own business and have experience talking to people across business functions. When there's an issue outside of my scope, I know how to make change happen.

I'm friendly and approachable, ensuring that people are eager to ask for help again in the future.

I understand my duty to the people I support, and will fight to make sure their voices get heard.

## Career History \_\_\_\_\_

### Founder @ **Lexoral**

After watching my partner struggle to transcribe their PhD interviews, I founded Lexoral. We give you an AI *assistant* that transcribes the easy bits for you, asking for help when it's not sure.

I ran all aspects of the business, from design to development, accounting to marketing. Lexoral closed out 2021 by joining the [Durham City Incubator](#), an intensive 6-month program.

I've discovered how much I didn't know before, getting real experience interviewing users, designing a marketing strategy, and building a meaningful value prop based on the things customers actually cared about.

### Senior Developer @ **NHS BSA**

Shocked at the poor developer experience caused by outdated tooling and organisational barriers, I made it my mission to resolve those issues. Seeing people run 15 microservices by hand, I moved development to containers and onboarded the team. After spending half an hour setting up test data, I refactored our frontend integration tests, creating a custom DSL that makes it trivial.

### Consultant Developer @ **Scott Logic**

I worked on a number of demanding projects, often expected to pick up new languages, technologies, or business domains, and be able to contribute within a few days.

As the COVID-19 pandemic set in, I worked in a trio advising NHS Digital on how to rearchitect the data pipeline feeding the Shielding Patients List. We planned and oversaw the in-place migration from complex SQL queries to a Databricks cluster, ran detailed knowledge transfer sessions with NHS devs, and advised senior leadership on how to prevent similar situations in future.

### May 2021 – Present

After hearing concerns about data security, I embraced a philosophy of radical transparency. To prove that we weren't hiding anything, Lexoral went [open-source](#) with public CD pipelines, and most of it was written live on [Twitch](#).

Lexoral was a crash-course in cloud-native development. Everything is serverless, clients talk to firebase [directly](#), and [one part of the pipeline](#) runs on over 1000 instances in parallel (per user!).

I still believe that Lexoral can be successful. It has a niche, and solves a real need. However, running a pre-seed startup alone is not for me. Sadly, it's time to move on and refocus on my strengths.

### Nov 2020 – May 2021

I constantly pushed for more communication between functions and ran action-focussed retros, making it more than just a place to vent and giving the team ownership over our ways of working. Since leaving, they have adopted some of my more radical ideas, including a complete restructuring of the project to de-silo the teams and allow people to self-organise.

### Aug 2019 – Oct 2020

Prior to that, I worked on an upcoming product for a multinational bank, and a Twitter-like equities research platform. I have always been drawn to developer-facing improvements, working on projects like inter-service authentication, data auditing, and continuous deployment pipelines.

Throughout my time at Scott Logic, I actively pushed to improve our ways of working. I ran retros and knowledge-sharing sessions to help integrate with client development teams. To make sure there was a lasting record to learn from, I documented the decisions we made in a wiki.

## Education \_\_\_\_\_

### **BSc Computer Science @ Durham University (1st Class Hons.)**

**2016 – 2019**

Dissertation title: *Tailoring horror games with biosignals*

### **MEng General Engineering @ Durham University (Certificate)**

**2015 – 2016**

Changed course after taking an elective CS module. A year of Engineering is surprisingly handy!

I've written for many tech blogs over the years. Here are a few of my highlights:

- **5 things you don't need Javascript for** - A tour of some lesser-known HTML and CSS features that let you create sleek websites without JS, from animated diagrams to dark mode.
- **Database sync like magic, with Svelte + Firestore** - Discussing Lexoral's data layer, built from first principles.
- **Down the ergonomic keyboard rabbit hole** - The story of how I ended up with [such](#) a weird [keyboard](#).
- **Rethinking the Java DTO** - Exploring how we added extra type constraints onto our DTOs using Lombok, making them more flexible and more resistant to runtime errors. Featured in [Java Weekly](#).

## \_\_\_\_\_ Speaking

I'm a seasoned speaker, and have given a number of tech talks at local meetups, including:

- **NE:Tech** - Where I talked about Minesweeper and threw chocolates at people.
- **NE-RPC** - Where I live-coded a website from scratch in Svelte.
- **Twitich** - Where I regularly live-code my projects (mixed with some games).

## \_\_\_\_\_ Projects

I'm always working on something new, take a look at some of my side projects:

- **Narration.Studio** - an in-browser narration editing tool using the web speech recognition API to be completely hands-free. Integrates with WebGL for high-performance waveform rendering. As a result of being built entirely with pre-release APIs, it no longer works. Looking back, this is the precursor to Lexoral.
- **MuseTree** ([Source](#)) - A custom tree-based frontend for OpenAI's [MuseNet](#), made for real music production workloads. I hand-wrote the instrument synthesisers you hear using the Web Audio API.
- **No Time To Stalk** ([Source](#)) - an experimental murder mystery game that was secretly multiplayer. Every action you take is recorded, and you become an NPC for the next player. How long until *you* get accused?
- **Sharpshot** - an esoteric visual programming language where data flies around a 2d grid and can collide in mid-air. Created for [Durhack 2018](#), winning the *GitHub Prize for Best Dev Tool* and 2<sup>nd</sup> place overall.
- **Prevoid** - An exploration into AI-generated art using CLIP-guided diffusion models.
- **Soundcloud** - A few samples of my music and remixes I've created.

## \_\_\_\_\_ Weird

It's always good to have a few fun facts to hand, so here are some of mine:

- I performed improvised comedy at the Edinburgh Fringe Festival.
- I built an electric bike that can do 50mph.
- I helped design a Robot Wars bot.
- I founded the Durham University Bureaucracy Society, with the aim of growing to the point that we were too bureaucratic to have any spare time for recruitment. It only took 12 members.