

# Daniel Mason

## Engineering Lead

### Personal Statement

Early in my career, a colleague was at risk of redundancy, a competent engineer from a different team. At the same time, our team was hiring.

I successfully petitioned to train the other engineer and was given eight weeks to show them the ropes, after which they joined my team, being immediately productive, saving the business money in redundancy and hiring.

That engineers' success is their own, but it taught me to understand a business holistically. It stoked my passion to help those around me grow, I believe **the real 10x engineers are those helping everyone around them achieve more.**

### Skills at a glance

#### Leadership

Architect, Tech Evangelist, People Manager, Coach, Mentor, Cross-Team Collaborator, Stakeholder Manager

#### Languages

Rust, TypeScript, JavaScript, SQL, Node.js

#### Quality Control

GitLab CI, GitHub Actions, rustdoc, Jest, ESLint, Prettier, Mocha, mdBook

#### Methodology

Agile, TDD, BDD, DDD

#### Frameworks

React, Next.js, Express, Actix, Dioxus

#### Platforms

Kubernetes, GKE, GCP, Docker, AWS, Linux

### Contact Details

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### Education

#### MSc Computer Games Technology

Abertay University, Dundee

#### BSc Cybernetics and Virtual Worlds

Bradford University

### Experience

- **Fio's Quest - Founder** fios-quest.com
  - Created a company to **demystify Rust** and other complex software engineering challenges
  - Grew a YouTube channel to **over 500 subscribers in just 8 videos**
  - Generated **12 chapters of innovative learning materials** to teach the Rust programming language in simple steps
  - Incorporated a company to manage revenue
  - Built the website using Dioxus, a **state of the art Rust frontend framework** of which Daniel is an **early adopter**
  - Self taught videography and editing using Davinci Resolve
- **Beamery - Principal Engineer** Nov '22 - Dec '23
  - Mentored and coached engineers at all levels
  - Established a **working group of 5 principal engineers** to manage alignment across multiple teams
  - Authored a comprehensive review of **5 IDaaS providers** before architecting a passwordless auth system
  - **Led a team of 4 engineers** to build the candidate auth system
  - Joined leadership teams for the Frontend and Backend Tribes
  - Presented **3 "lunch and learns"** (all of which are on danielmason.com)
  - Helped team go from **50% test coverage to 80%** reducing out of hours outages to zero and improving morale
- **Peloton - Engineering Lead / Engineering Manager** Sept '20 - Nov '22
  - Led the internationalisation team, then **influenced the wider business** to change practices to not require a specialised team, pivoting my team to content
  - Grew team **from 2 engineers to 8** and successfully processed **6 promotions**
  - Developed a new way to store and render content that was adopted by other teams, reducing the effort to produce a new page **from 10 days with 2 engineers, to 0.5 days with 0 engineers**
  - Optimised project management to improve reliability of estimations, **reduced whole team meetings by 75%** and increased team happiness
  - Stayed on top of reports' personal goals to ensure they achieved them and helped them progress their careers
  - Cultivated **psychological safety** and prioritised team member growth
  - Successfully coached the manager who succeeded me
- **Triptease Ltd - Senior Software Engineer** Oct '19 - Sept '20
  - Immediately **resolved a bug** that caused one of their systems to be **unavailable for 45mins every day**
  - Formally career coached a data scientist and informally coached several engineers
  - Used responsive design to **mitigate losses on ad spend of ~12%**
  - Gave multiple "lunch and learns" (the most popular of which covered the impact of thirsty Victorians on modern cryptography)
- **Apolitical Group Ltd - Senior Software Engineer** Nov '17 - Oct '19
  - Planned and developed the architecture that took a platform struggling service to **over 38x the number of users** it had previously supported
  - Built a Rust service that was **4x faster and 5x more memory efficient** than an equivalent Node service
  - Coached two junior engineers, including **teaching them Rust**
  - Designed, documented and deployed the Continuous Deployment processes
- **MOO Print Ltd - Software Engineer** May '16 - Nov '17
  - Successfully advocated for and coached a junior engineer at risk of redundancy so that they could join our team
  - Evangelised Continuous Deployment, participated in the CD working group and **influenced business wide decisions**
  - Took a greenfield project to production
- **More on request**