

Kevin Mahoney

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WRITING

I have a collection of articles on [my website](#) that are sometimes popular on *Hacker News* and *Reddit*.

Popular articles include “[My Principles for Building Software](#)” (2020) and “[Make Invalid States Unrepresentable](#)” (2020).

WORK HISTORY

FeatureSpace / VISA

📅 September 2023 - 👤 Senior Engineer, Team Lead

- **Operating at a Staff Engineer level:** Architecting infrastructure for the next-generation AI fraud detection product and driving cross-team technical strategy.
- **AI Enablement:** Pioneered the adoption of AI technologies and tooling within the engineering organization to modernize developer workflows.
- **Cross-Functional Leadership:** Spearheaded engineering initiatives to attain PCI compliance, acting as the bridge between Security, DevOps, Product and compliance teams. Played a critical role in migrating to VISA infrastructure.
- Managed and scaled the AWS, Terraform, and ArgoCD infrastructure post-acquisition.

Causal

📅 May 2021 - June 2023 👤 Data Team Lead

- Joined as the seventh employee at this financial modelling startup, building out core data integrations from scratch.
- Architected the migration of analytical data from PostgreSQL to Clickhouse, improving evaluation speeds for complex models from 60s to 2s.

OVO Energy / Kaluza

📅 March 2018 - May 2021 👤 Team Lead

- Founding member of an autonomous internal team responsible for aggregating charges and industry-compliant billing.
- Drove the architecture, technology choices (Scala, Kafka, Kubernetes), and engineering processes used by the team.

Mobile Vikings

📅 2014 - 2017 👤 Contractor

Contracted to build their marketing and SIM management site.

GoCardless

📅 2012 - 2014 👤 Senior Engineer

Tenth hire at this YCombinator-backed payments startup.

MapleCroft

📅 2009 - 2012

Built bespoke risk analysis dashboards for large multinational companies.

STRENGTHS

- A wide knowledge of technologies.
- A deep knowledge of functional programming, type systems and databases.
- A focus on communication and high quality technical writing.

TECHNICAL SKILLS



Technologies I haven't used for a while, but can quickly get up to speed with:



PROJECTS

I enjoy working on personal projects outside of work, many of which are on my [GitHub profile](#). I have a particular interest in small domain-specific languages and database technologies.

RootDoc

2025

🔗 rootdoc.app

A collaborative, easily-sharable space for tasks, documents and data. Uses operational transforms.

VeGen

2025

🔗 vegen.dev

VeGen is a compiler for tiny, efficient, updatable TypeScript HTML templates. A lower-level, less meaty alternative to view libraries like React.

Kuljet

2020

🔗 kuljet.com

Kuljet is a happy little language for writing database-backed HTML applications.

Ocellator

2021

🔗 kevinmahoney.co.uk/ocellator

A structural editor for writing synths with a lisp flavour.

Squee

2020

🔗 github.com/KMahoney/squee

Squee is an experimental language that breaks relational queries down into composable functions.