

# Kevin Mahoney

Software Developer

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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](#)” and “[Make Invalid States Unrepresentable](#)”.

## WORK HISTORY

### OVO Energy (Kaluza)

📅 2018-present

I was one of the founding members of one of OVO's autonomous internal teams, responsible for aggregating charges and industry compliant billing. I had a significant influence on the architecture, technologies and process used by this team.

In developing a next generation energy billing system I used a wide range of technologies including Scala, PostgreSQL, Kafka, Kubernetes and Terraform.

### Kevin Mahoney Limited Mobile Vikings (client)

📅 2014-2017

A mobile virtual network operator based in Hasselt, Belgium. I contracted with them for a few years helping them to build their marketing and SIM management site.

Their stack was mostly Django-based, but I also worked with Javascript, C, MySQL, PostgreSQL and Docker.

### GoCardless

📅 2012-2014

I was the tenth hire at this YCombinator-backed, London-based payments startup. I mostly worked as a back-end Rails developer for their direct debit platform, but did a little front-end and DevOps with Chef too.

### MapleCroft

📅 2009-2012

Maplecroft is a small global risk analytics company. I worked as a full stack developer using Django and Javascript, designing 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

Haskell Rust Scala Javascript & Typescript

Elm TLA+

PostgreSQL Terraform Kubernetes Kafka

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

Ruby Rails Python Django C

## 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.

### Kuljet

🔗 [kuljet.com](http://kuljet.com)

Kuljet is a happy little language for writing database-backed HTML applications. Its type checking and integration with relational databases should help you whip up prototypes in no time.

### Ocellator

🔗 [kevinmahoney.co.uk/ocellator](http://kevinmahoney.co.uk/ocellator)

A structural editor for writing synths with a lispy flavour.

### Squee

🔗 [github.com/KMahoney/squee](https://github.com/KMahoney/squee)

Squee is an experimental language that breaks relational queries down in to composable functions that can be fully inferred with a few extensions to Hindley Milner. It compiles to SQL and so can be used with relational databases.

### Ocell

🔗 [kevinmahoney.co.uk/ocell](http://kevinmahoney.co.uk/ocell)

A structural editor for writing cell-based programs.