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## Summary

Consultant Engineer.

I learnt to program at the age of sixteen after discovering a flourishing homebrew community. Realising that selftaught amateurs could create products was inspiring to me. I'm still amazed by the work done by small empowered teams.

Over the years I've worked with many languages within many different environments. Nowadays I do a lot of commercial work in JavaScript due to its prevalence but in my spare time I like Rust due to its mixture of low-level and functional programming.

My engineering practices are influenced by: the twelvefactor app, a conservative attitude towards microservices, unit testing & TDD, a light sprinkle of functional programming, the Elm Architecture, and Simple Made Easy.

I specialise in combining technical knowledge with lateral thinking. I particularly like to advise on systems that maximise a businesses technical leverage while also reducing their exposure to *execution costs*.

Knowing when not to solve a problem is as important as knowing how to solve it.

**Technical specialties:** Full-stack software design and implementation. I follow the mantra the right tool for the right job and try to keep solutions as simple and common as possible.

Other: I've run small standups in the past; I enjoy learning about: product design, UX, and market analysis; I ran a Hackathon once.

## Experience

**Duplo Tech** 

Freelancer

LONDON, UNITED KINGDOM / REMOTE Iun '13 – Present

Freelancing, consulting and open-source activities.

- Banking for your command line. Written in Rust.
- Access Twitter data without an API key.
- Graphviz templates as visual configuration of Neo4j database insertions.
- An Express.js middleware to allow one-line installation of analytics into Node.JS projects for the Sequoia Capital backed startup Keen IO. This was a project born out of an idea I suggested as a way of reducing the time-to-setup of their analytics service from multiple hours/days to around 15 seconds.

YLD LONDON, UNITED KINGDOM Jan 17 - Apr 17

Node.js Engineer

YLD is one of London's fastest growing software engineering consultancies.

- Code reviews. Troubleshooting framework issues. Implementation of 4 Node.js microservices.
- Created shared helpers to ensure a set of data exists during test execution.
- Improved the error handling and logging of an in-house microservices framework.
- Wrote a bit of documentation explaining the process of migration between SQLite and MySQL.

#### McKinsey & Company

Western Europe Apr '16 – Dec '16

#### **Full-stack Engineer**

McKinsey & Company is a worldwide management consulting firm.

- Code reviews. Mentoring. Documentation. Architecture.
- D3. React. Redux. Node.is.
- Wrote a number of open-source projects (e.g. redux-saga-helpers and react-redux-wizard).

#### The Economist

LONDON, UNITED KINGDOM

# **Software Engineer**

Sep '15 – Dec '15

The Economist is an English-language weekly newspaper.

- React. ES6. Node.js.
- Numerous components (e.g. @economist/component-articletemplate) used in The World In 2016 project and potentially other projects.

#### Home Office

LONDON, UNITED KINGDOM

#### **Technology Lead**

Jan '15 – Sep '15

The Home Office is a ministerial department of the Government of the United Kingdom, responsible for immigration, security, and law and order.

- Rebuilt a sprawling legacy system into 6 Node.js microservices harnessing infrastructure, services and libraries built for the Passport Exemplar project.
- 1 JWT Authentication API with LDAP as its backing service; 1 old-school Express.js front-end app; 1 single-page app built with React + Flux + ES6 (Babel); 2 RESTful Express.js APIs; and 1 command-line app to run tasks on the Postgres database.
- Gave strategic advice on the architecture of a new project, and later presented this plan at 'Show and Tell' to a wide range of people throughout the organisation.
- Created some early prototypes using Java 8 + Dropwizard + Swagger.

London, United Kingdom Mar 14 – Jul 14

# Node.JS Consultant

Red Badger is a creative software workshop.

- This was a client-facing role in which I provided training to an external team.
- Node.JS, RabbitMQ, Elasticsearch, Redis.

# Hailo JavaScript Engineer

LONDON, UNITED KINGDOM

Sep 13 – Jan 14

Hailo is the evolution of the hail -a free smartphone app which puts people just two taps away from a licensed taxi, and lets cabbies get more passengers when they want them.

- Created a series of single-page dashboard apps. Conversations with internal customers helped me to come up with ideas on how to simplify business processes. For example a way of signing off groups of driver's profile changes was given a UX that defaulted to approval but forced the user to sign a receipt of the changes: this helps with speed while also ensuring accountability.
- Other components were created so that behaviour relating to presentation was well-separated from configuration and data input; or made so that they could be updated in real-time, for example: an animated map of driver locations.

BIZZBY

LONDON, UNITED KINGDOM

Senior Node.JS Engineer

Bizzby is app your service to help you book a trusted local service in 30 seconds.

We R Interactive

LONDON, UNITED KINGDOM

Apr '13 - Jun '13

**Team Lead**We R Interactive blends the best of games, film and TV production to create social games that bring global audiences together

- around sport and music.Designed and lead the creation of a back-end system to support a sport game as well as recruiting developers for
- The system was decomposed into multiple services and stored data in Cassandra. I created a service which would automatically generate a series of questions from a stream of data and a template, a real-time market-outcome resolution service that would automatically resolve a series of previously generated questions depending on a simple DSL and a stream of real-life data, and a service that could have data pushed to or pulled from it and parse this data into a common format before feeding it into a message queue for deeper processing.
- Setup a continuous integration system using Jenkins, and used Puppet to automate deployment of some of the services to AWS.

Saffron Digital
Team Lead

LONDON, UNITED KINGDOM

Oct '10 – Oct '12

Saffron Digital is the global, market-leading provider of connected device video, DRM, advertising and platform services. Saffron Digital was acquired by HTC in 2011.

- Architect on the HTC Watch project in which I later lead a team of five developers. Due to my early work on internationalisation and implementation of multiple payment services we were able to scale this up to 20 countries.
- Significant input in re-engineering development process as we moved from being a startup to a larger company. For example: an engineering culture; Git instead of SVN; continuous integration; modern deployment tools; etc.
- Architecture and development of a new platform based on understandings gleaned from previous services. Worked on service to orchestrate and configure encoders in order to run encodes in parallel on AWS.
- A client-side application for Samsung Connected TVs and set-top boxes written in object-orientated JavaScript.

**PHP** Developer

Feb '10 – Oct '10

- A RESTful web service for FOX to support a fully localised Family Guy video streaming Android application. A CMS was also created as well as reporting tools to give the business metrics to measure activity.
- A web service for Paramount Studio s the League of Extraordinary Dancers iPhone app. This was interoperable with the iTunes video store in order to check receipts.

Please refer to my Linkedin profile for the complete list of work experiences along with recommendations.

#### Education

Coursera Online
Machine Learning Feb 16

Course Certificate, License E3XLGER56CQ3

University of Kent

Bachelor's degree in Computer Science

Canterbury, United Kingdom

2005 - 2009

Cranbrook School

GCSEs & A-Levels (secondary education)

CRANBROOK, UNITED KINGDOM

2000 - 2005

# **Interests**