

# Oliver Diamond

I am a senior (lead) full-stack Node.js/React.js/Kubernetes/AWS software developer with an eclectic career in other sectors (although I've been programming since I was 13). I have experience in many languages and technologies - and in approaches that emphasise cloud-based microservices, SOLID code design, devops, CI/CD, and Functional Programming. Recently I have focussed on how to grow dev teams, and how to prioritise business value vs tech debt.

- Current Position: Lead Developer, Tempo UK
- Specialisms: Node, React, Mongo, Kubernetes, AWS Microservices, mentoring juniors.
- Passions: Kubernetes, functional programming, point-free programming, devops.
- Physics, 2:1 - Imperial College London (specialism: Computational Simulations)
- Extensive experience outside programming: Finance, Politics, Media, Communications

## Tech Career Overview

Currently I work as the **Architecture Consultant** at Performativ, a fintech startup building a tool to track asset manager's portfolio performance. I am mostly advising on transitioning to **AWS Lambdas** from a PHP Laravel monolith, building financial apis that conform to various **FAPI** standards, and delivering new features that **interface with large banks**.

Before Performativ I was **Lead Engineer** at Tempo for over 2 years, with responsibility for building and maintaining the entire digital product and development team. I have had 3 focusses:

- Managing a team of 6+ full-stack React/Node.js developers, with always ~50% junior/beginners.
- Breaking our monolith into microservices (using Helm & Kubernetes to create a development/devops platform). I am proud to have **personally built (and deployed) an entire CI/CD platform on Kubernetes** that offers developer tools (Jenkins, JenkinsX, ArgoCD), and devops tools (Prometheus, Loki, Grafana, Istio). The only cost to the company being GCP machines in the cloud.
- Growing a culture of best practices within the dev team (**FP, SOLID code design, domain driven design, testing, code quality, Typescript, the latest technologies, & mentoring juniors**). I am proud to have mentored the developers I have worked with, and watched their abilities grow.

Prior to Tempo, I have most recently worked for for Sky, Tes (formerly the Times Education Supplement) and HSBC. At home I'm also a tinkerer: RPis everywhere! I built a bare-bones K8s lab in my attic with spare-parts.

I follow leaders such as: **Robert C Martin**, Fred George, Martin Fowler, Rich Hickey, Dan Abramov & Sandi Metz. And I follow closely developments in the tech I have invested in: Kubernetes, React, Redux, Node, GraphQL, K8s, GoLang, TypeScript, & JenkinsX.

## Skills

### Programming:

- *JavaScript & (ES6+, Typescript, Node/React) 5+ yrs profexp (Mongo, SQL, Express, React, Redux, GraphQL, RabbitMQ, Webpack, Babel)*
- *Clojure (Compojure) 1+ yrs*
- *Go*
- *Ruby (Rails),*
- *Python (Django)*
- *C++ (some Java - I'd prefer to forget)*

### Delivery/Ops:

- *Microservices & Cloud (Kubernetes, Docker, GCP)*
- *Continuous Delivery (Jenkins-X, Jenkins)*
- *Version control (Git, RTC)*
- *Linux (Regolith, Ubuntu, Redhat, Debian)*
- *Spacemacs (Emacs + Vim), Eclipse, IntelliJ, Android Studio*
- *VS-Code*

### Methodologies:

- Agile (Developer Anarchy, Scrum, Kanban, Shape-Up)
- Devops (CI/CD)
- Test Driven Development
- Pair Programming
- Microservice Architectures
- Functional Programming (Point Free Programming)

## Other Expertise

**Government:** I have 8 years experience across Government, public policy, and the digital & creative industries.

**Finance:** Aside from my tech work in HSBC's FX dept, I have experience as an analyst in hedge-funds and brokerages.

**Communications:** I have worked on public policy campaigns, in political comms, and in film & theatre marketing.

## Work History

### Performativ (July 2019 - Sept 2021) / Architecture Consultant

See above for more details (Tech Career Overview section). I am helping Performativ in 3 main areas: formulating a general architectural strategy to leverage lambdas and microservices next to a legacy multi-tenancy monolith; building an ingress pipeline in AWS for transaction data held by big 3<sup>rd</sup> party banks (APIs, SFTP & more), and offering that data up via Financial-grade APIs.

### Tempo UK (July 2019 - Sept 2021) / LEAD DEVELOPER

See above for more details (Tech Career Overview section). While always being available to mentor and assist members of my team, I have concentrated efforts on introducing and leveraging technologies and practices that scale effectively.

My team have done this while continuing to deliver value - and demonstrating to investors the platform's ability to scale with only small increases in infrastructure costs.

**Sky (May 2018 - July 2019) / SENIOR SOFTWARE ENGINEER**

Our team developed and maintained a suite of services that allow Sky's Editors to generate and publish scheduled menu changes and then serve it to ~6 million Set-Top-Boxes across the UK, Ireland, Germany, and Italy. As the team's Senior Engineer, I was responsible for directing the dev team's efforts; I prompt choices in technology, practices, and methodologies, aiming to facilitate my colleagues' work. As one of the only full-stack teams in Sky, we had concerns from hosting infrastructure to API resilience and browser compatibility. I also focussed on mentoring the junior and beginner developers across Sky - teaching beginners and leading workshops on clean code, and new technologies.

**Tes Engineering (Oct 2017 - May 2018) / SOFTWARE ENGINEER**

Tes (once the Times Education Supplement) provides teaching resources to most teachers in the UK. The company used microservices, with (mostly) a MERN stack (MongoDB, Express, React, Node), and had invested heavily in the concept of micro-frontends. Teams and services were divided by domain concerns, and I worked on reference checking, supply teacher sourcing and an end-to-end timesheets application.

**HSBC GFX (Dec 2016 - Sept 2017) / DIGITAL TRANSFORMATION SOFTWARE DEVELOPER**

My team of 6 delivered a suite of microservices in Clojure and ES6 and patched them into a legacy Java 6 / dojo.js monolith. We worked from within the modern foreign-exchange department of the investment bank (GFX), making their products available via HSBCnet: one of the world's most used commercial payment platforms.

**Makers Academy (May 2016 - Sept 2017) / SOFTWARE ENGINEERING CONSULTANT**

London's top dev bootcamp. I was involved from the beginning in Makers Academy's consultancy arm which aimed to take freshly trained junior devs and place them in teams with Makers Academy corporate partners. True to the MA spirit, I also completed the Makers Academy course - a bootcamp focussing on professional programming best practices (Agile, TDD, BDD, Pair Programming and the).

**Bob & Co (Nov 2014 - May 2016) / HEAD OF DIGITAL AND COMMUNICATIONS**

A small media (film, TV, theatre) developer, and financier. I ran the technological, research & communication efforts.

**SUMS Film & Media (Aug 2015 - Dec 2015) / DIGITAL CONSULTANT**

An independent film producer. I advised the Chief Exec on digital strategies ([IMDB](#) ← I'm three clicks from Tom Cruise!).

**North Square Blue Oak (Jan 2014 - Mar 2014) / ANALYST**

A brokerage and corporate finance boutique. I assessed new opportunities in the digital and media sectors.

**CQS Asset Management (Feb 2013 - Mar 2013) / MARGINS DEPT ANALYST & SOFTWARE DEVELOPER**

A \$13bn credit hedge fund. I worked in liability management and also with the strategic IT team

**Office of the Digital & Cultural Minister (Nov 2008 - Nov 2014) / SENIOR PARLIAMENTARY ADVISOR**

I managed the Parliamentary Office of Rt. Hon. Ed Vaizey MP (now Lord Vaizey of Didcot) from before his Ministerial appointment. I oversaw the running of the office, interviewing, training and managing all junior staff. I worked on campaigns such as improving WiFi provision in public libraries and adding coding into the national curriculum. I also ran a networking group, developing and maintaining relationships with many key players in the tech & creative sectors on behalf Damian Collins MP. I ran regular panel discussions, drinks receptions and conferences across the UK, focussing on issues from the digital single market to diversity in the media.

## Education

**Physics 2:1 (BSc & ARCS): Imperial College London (Oct 2005 - July 2008)**

I focussed on computational simulations, astrophysics, plasma physics, and the practicalities of nuclear fusion energy as a future energy source.

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**Final Year Degree Project (C++)**

*I received 93% for an computer simulation investigation into the process of evolution. I wrote the program from scratch, modelling biological systems. I was praised particularly for analysing great amounts of data, spotting patterns and anomalies, presenting them accessibly and quantifying the results in a manner that the department had never seen before.*

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## Other Interests

**The Digital Bazaar, Tate South Lambeth Library (2009 - 2013) / FOUNDING VOLUNTEER & IT EXPERT**

Taught basic computer skills, smartphone, and other technology use to struggling members of the Lambeth community (many of whom did not have English as a first language). Runners-up for the CILIP Libraries Change Lives Award 2012.

**Music** - I have an intensely musical education. A music scholarship took me through secondary school. I sang in Christ Church Cathedral Choir, Oxford (we sang the credits to Blackadder and Vicar of Dibley; we performed in front of HM the queen; and we toured the USA, Japan, Germany, France, and Brazil). I also played the Saxophone, Violin, Piano, and guitar.

**Cooking** - I love cooking and spend a great deal of time in the kitchen. I have been paid to cook at events. And my recipes are popular on [Instagram](#).

**Tennis** - I play regularly with a variety of partners and am coached professionally.