

# Oliver Diamond

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I am a full-stack developer, passionate about: ES6, Lisps & functional programming; Linux architecture; and approaches that emphasise devops, fast delivery, clean code, & developer anarchy.

- Physics, 2:1, Imperial College London
- Last Position: HSBC Digital Transformation Team
- Experience in Finance, Politics, Media
- Professional Programming Training
- Degree Specialism: Computational Simulations
- Passions: functional programming, devops, Linux

## Background

I have been programming since I was 13 - building web MMORPGs with friends (*HTML & PHP*) with 1000s of players. At university (2:1 *Physics*) I spent 2 years programming a bio-ecosystem simulation (*C++*). I have worked in politics, film production, TV & theatre development, and finance. **I pushed and built tech solutions in all of these industries** from simple web apps (*Node, Python, Ruby*), to finance analysis apps (*Java*). I trained myself at a top dev bootcamp, **focussing on professional full-stack skills and modern methodologies**.

Recently at HSBC, our small team brought modern disciplines to a heavily regulated corporate environment. We demonstrated the benefits of **devops, agile, continuous delivery, microservice architectures, constant retrospection and developer freedom**, whilst always focussing on releasing value to clients.

## Skills

### Programming:

- *JavaScript (ES6, Node, Express, Dojo, JQuery, RxJS, Selenium) 6+ yrs*
- *Clojure (Compojure) 1+ yrs*
- *Java (Android, Spring) 2+ yrs*
- *Ruby (Rails) 1yr*
- *C++ 3+ yrs*
- *Python*
- *HTML, HTML5, CSS, LESS*
- *DB (MySQL PostgreSQL, Mongo)*

### Delivery/Ops:

- *Continuous Delivery (Jenkins, TeamCity, Heroku)*
- *Version control: Git, RTC*
- *Linux (Redhat, Debian, Ubuntu)*
- *Bash*
- *Networking (DNS, TCP/IP, HTTPS)*
- *Eclipse, IntelliJ, Android Studio (though I prefer a text editor where possible)*

### Methodologies:

- Devops (Fast release cycles)
- Agile (lots of retrospecting)
- Test Driven Development
- Behaviour Driven Development
- Pairing
- Microservices Architectures
- MVC Architectures

### Other Expertise

**Government:** I have 8 years experience across Government, public policy, and the digital & creative industries. I continue to support a political network for those sector.

**Finance:** Aside from my work in HSBC's FX department, I have also worked in a credit trading hedge fund, a Chinese event-driven brokerage, and a corporate finance boutique (analysing media and tech opportunities).

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

## Work History

### HSBC GFX (Dec 2016 - Sept 2017) | DIGITAL TRANSFORMATION SOFTWARE DEVELOPER

We delivered a suite of microservices in Clojure and ES6 and interfacing them with a legacy Java6 / dojo.js monolith.

Our team of 6 worked from within the modernising agile-embracing GFX department of the investment bank, but worked to bring their products into HSBCnet, one of the world's most used commercial payment applications.

I worked in a modern coding environment: devops, daily release cycles, developer anarchy, microservices, test-driven development and client behaviour driven development, with an ability to write code and have it in production in the same day. However I simultaneously worked on the HSBCnet application, being developed on a quarterly release cycle, with manual testing, and old SDLCs.

### Makers Consultants (Dec 2016 - Present) | SOFTWARE ENGINEERING CONSULTANT

I was involved from the beginning in Makers Academy's Consultancy arm. I have remit to work on Makers' education-based platform when not with a corporate partners (HSBC, Tek Systems, & Allegis Group).

### 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. I

also built (and maintained) the company website, and other applications (Java & JS) for their partners & subsidiaries.

I later became Acting Director of Operations during a staff maternity leave, tasked with extensive audit and efficiency efforts in the IT, telecoms, and other office admin budgets.

#### **SUMS Film & Media (Aug 2015 - Dec 2015) | DIGITAL & TECHNOLOGY CONSULTANT**

An independent film producer. I advised the chief executive on their projects' digital strategies (see [IMDB](#)). I worked on various applications, including marketing websites (PHP & HTML5).

#### **North Square Blue Oak (Jan 2014 - Mar 2014) | SABBATICAL ANALYST**

A brokerage and corporate finance boutique, assessing new corporate finance opportunities in the digital sectors. The company drew heavily on my technological expertise in assessing potential investments.

#### **CQS Asset Management (Feb 2013 - Mar 2013) | MARGINS DEPT ANALYST & DEVELOPMENT INTERN**

A \$13bn credit hedge fund: in liability management analysis with collateral specialists (creating an app to assess marginal risks); and also with the strategic IT team, developing a credit price monitor application (C#).

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

I managed the Parliamentary office of Rt. Hon. Ed Vaizey MP from the date of 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 bringing coding into the national curriculum.

Aside from working on digital & media policy, I was given a wide remit and free-reign within the office, so I often used programmed office solutions, developing wordpress applications (PHP) for websites and databasing, and MS access applications for automating emails and training.

## **Education**

#### **Makers Academy (May 2016 - Aug 2016)**

Makers Academy afforded me the opportunity to learn professional best practices, surrounded by some truly great programmers. I developed my curiosity and hungry passion for code, with focus on becoming an independent learner and problem-solver. They offer a firm grounding in the principles of software craftsmanship: OOP, TDD, SOLID, BDD.

#### **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.

##### ***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.*

## **Interests**

#### **CACIN - The Political Creative Industries Network (2008 - 2017) | DIRECTOR**

I developed and maintained relationships with many key players in the tech & creative sectors, and ran regular panels and drinks receptions across the UK, centering on issues from the digital single market to diversity in the media.

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

Taught basic computer, 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.

#### **Other:**

**Tech Tinkering** - I'm a Linux user at home (Fedora, Debian, Ubuntu, Mint). I have a home-made NAS made with a Raspberry Pi, and a homemade server - also running on Raspbian. I code small apps (usually in ES6 now) and run them from that server.

**Music** - I have an extensively musical education. I received the music scholarship to my secondary school. I sang in a Christ Church Cathedral Choir Oxford, and played the Saxophone, Violin, Piano, and guitar.

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

**Cooking** - I love cooking and spend a great deal of time in the kitchen. My recipes are popular on [Instagram](#).