

# Emily Shepherd

✉ emily@emilyshepherd.me · 📞 +44 (0) 7575 721 231 · 🌐 EmilyShepherd · 🔒 0xD9AF0B5D



**Hi, I'm Emily.** I am an experienced Software and DevOps Engineer with experience working within multi-developer teams, both as a member and in a leadership position. I am an effective communicator to both technical and non-technical audiences and comfortable working to tight deadlines.

PHP · JavaScript · (X)HTML(5) · CSS · Java · SQL · C(++) · Python · Perl · Bash · LaTeX  
Redis · Docker · Apache · Postfix · Dovecot · Nginx · AWS · Linode · \*nix · Git  
Symfony · Doctrine · AngularJS · Vue.js · jQuery  
Jenkins · GitHub · GitLab (+ GitLab CI)

## Employment History

### **Unrival Ltd, Lead Software Engineer, July 2018 – September 2018**

I came onboard with Unrival at the infancy of their digital product offering, and was responsible for planning and designing their system from the ground up. This included setting up the databases, servers and CI/CD pipelines required, using GitLab CI, helping to decide the business requirements of the tool, and architecting and building the platform's core code base, using FastRoute + Doctrine running in a Docker swarm on the backend, and Vue.js served from an S3 bucket behind AWS CloudFront. I then transitioned into hiring and overseeing the rest of the development team take over day to day operations.

### **Partnermarketing.com (Twogether Creative Ltd), Developer (Lead), January 2017 – July 2018**

I joined as a Junior Developer for their flagship product family: partnermarketing.com. The platform's backend is predominantly PHP, using Symfony 2, and the frontend is predominantly AngularJS.

After three months, I became the most senior member of team and in March I won "Hero of the Month", selected by entire company vote. When I joined, the team was at the end of a six month project to refactor the entire code base, and in April I single handedly planned, managed, and oversaw the go live date – migrating the entire database from MongoDB to MySQL and ensuring none of the data in our thousands of records were corrupted.

Since then, my role grew to include: planing technical tickets with the Product Owner, managing the rest of the developers and overseeing their progress, architecting the platform as a whole, doing DevOps for the team, and training and mentoring new starters.

I regularly went on client calls, liasing with technical and management teams within some of Twogether's big clients, such as Lenovo, Zebra, and Nokia, to discuss and debug Single Sign On matters, and new client requirements. I have also provided clients access to testing systems for User Acceptance Testing, and interpreted their feedback, translating this into tickets for the team to action, and written statements and responses to client queries during the proposal phase.

My next project was to split up the monolith codebase into smaller micro services, and migrate the platform away from its traditional server stack, to a containerised solution, run on Docker Swarm. I was solely responsible for the planning and implementation of this, and I deployed it at the start of 2018 with no downtime. This has halved our running costs, over doubled the capacity, and made it much easier to deploy / test code changes.

My role also covered the DevOps side of the infrastructure used by the agency side of the business, and in April 2018, I performed an audit of all systems including: every instance, volume, security group, RDS instance, and DNS record. This resulted in an immediate saving of around \$1500 per month, and I gave recommendations for longer term solutions for further cost savings.

### **Spa Staff.com, Web Developer and Mistress, 2011 – 2015**

Spa Staff is a spa recruitment service, with over 22,000 candidates uploading CVs to the site, and over 3,000 employers searching these and posting job advertisements. I was solely responsible for the management of the site and all feature development.

In 2014, Spa Staff contracted a second freelance developer for minor bug fixes and improvements while I worked on a major site redesign, implementing a responsive design to better tailor the site for tablets and phones. I was responsible for training this developer in the technologies the site uses and assigning / overseeing jobs.

### **Music Jobs, Web Developer, August 2010, July 2011 (Summers)**

In the summer of 2010, I joined their London office, charged to reskin their web site to give a better experience when viewed on a mobile device.

In 2011, I was invited to their LA office; I refactored their procedural payment systems into an MVC architecture and integrated them with multiple payment systems, including SagePay, Braspag and PayPal.

## Projects

### **Open Source Work**

As part of my work at Partnermarketing.com, I contributed to a number of open source projects, such as lightSAML, a library for handling SAML Single Sign On, and KeenIO, a library for pulling statistics out of KeenIO. I also created and worked on entirely new open source projects such as an SDK for shortening URLs via Rebrandly's service, and a queuing library for message passing between micro services using Redis.

### **Legit: Distributed Code Review Tool, Individual Project, 2014 – 2015**

For my third year at Southampton, I worked on a year long individual project. I conceptualised and developed Legit, a code collaboration tool based on Git. Its purpose is similar to that of Gerrit, with the difference that review / vote meta-data is tracked within the Git repository. This creates a distributed audit trail, which is visible to anyone with access to the original repository, removing the point of centralisation typically required in large scale projects. I was awarded a mark of 81% for this project, a high first class grade.

## Education

### **University of Southampton, 2011 – 2016**

I graduated with a first, on an integrated Masters of Engineering, reading Computer Science. I earned two scholarships for being within the top 10% in my first and second years, as well as the Netcraft Prize, for being within the top 10 of my cohort in third year.

### **The Leys School, Cambridge, Secondary School and Sixth Form**

A Levels: Maths: A\*, Further Maths: A\*, Physics: A\*, Chemistry: A

GCSEs: A\*s in Maths, Biology, Physics, Chemistry, Divinity, Latin, English Literature  
As in French, German, English Language, History

FSMQ: A in Additional Maths

**More Information:** [emilyshepherd.me](http://emilyshepherd.me) · **Portfolio:** [github.com/EmilyShepherd](https://github.com/EmilyShepherd)