



Wes Mason

BSc (Hons.)

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PROFESSIONAL PROFILE

Wes is a polyglot developer with two decades of experience programming and deploying large scale networked applications, and 8+ years continued experience focusing on build engineering, site reliability engineering and infrastructure-as-code.

OBJECTIVE

I am on the look out for interesting new opportunities working closely with open source that improves the world, with a great focus on empathy and kindness to people.

EDUCATION AND QUALIFICATIONS

BSc: Computer Science (with Honours, University of Hull, 2006)
Driving License: Full, clean

BUZZWORDS, HO!

- NodeJS/JavaScript/TypeScript, Python, PHP, Perl, Go, Rust, Ruby
- Kubernetes, Helm, Chef, Puppet, Ansible, Juju, Terraform
- PostgreSQL, MySQL, MongoDB, Redis, RabbitMQ, HAProxy, Nginx, Apache
- Prometheus, Graphite, StatsD, Grafana, Elasticsearch, Logstash, Kibana, Nagios, Jenkins, Buildbot
- AWS, Google Cloud, Azure, OpenStack
- Release/build engineering, continuous deployment pipelines

PROFILES

- Code: <https://github.com/1stvamp>, <https://launchpad.net/~wesmason>
- SO: <http://stackoverflow.com/users/2228202/wes-mason>
- Tweets/Toots: <https://twitter.com/1stvamp>, <https://mastodon.technology/@1stvamp>

SPEAKING

See my [Speaking Repo](#).

CAREER SUMMARY

May 2018-present Senior Site Reliability Engineer, *npm, Inc*

- Part of the team responsible for, and have made direct contributions to an infrastructure that powers the worlds largest software registry serving 2-3 billion downloads *per day*, and planning for ever increasing scale.
- Refactored installation/environment scripts for SRE tooling, and refactored Terraform/Ansible configs to be easier to understand and faster to get bootstrapped.
- Deployment, monitoring and maintenance of npm Enterprise SaaS on large single tenant Kubernetes clusters on GKE.
- Incident leader on several large incidents affecting millions of users, showing a consistent record for prompt and thorough resolution with a focus on user-first solutions backed up by long term monitoring and iteration.
- Tech lead on a support chatbot and “service hub” infrastructure for securely accessing customer cluster microservices using cryptographically secure communication, internal SSO authentication/authorisation and detailed audit logging.
- Lead project to migrate DNS providers for the registry, website and services with 0 downtime, and decommissioned several custom services running as instances on EC2 and replaced with Cloudflare edge services and workers.
- Pairing and onboarding of new SREs and software engineers.
- Migrated 99% of the npmjs.org/npmjs.com infrastructure to automated loadbalancing, with great observability and monitoring of key traffic metrics.

May 2017-Apr 2018 Senior DevOps Engineer, *Verve.co*

- The *only* SRE/DevOps engineer in a team of 20-30 engineers, leading and advising on day to day infrastructure changes and maintenance of key infrastructure-as-code components.
- Refactored the entire build pipeline for an 11 microservice monorepo project, migrating from v1 to v2 of our CI provider (CircleCI) with optimisations and bespoke docker image build systems which took our build times down from 20-30 minutes on master down to 10-12 minutes, and an average of 6 minutes on individual branches, as well making build idempotent and closely matching local development environments. I got a lot of ♥ for this is what I’m trying to say.
- Migrated the non-Heroku AWS components of our infrastructure to be handled by Terraform and ensured documentation and wrapper scripting is in place to allow any other engineer to pick up and use as they need.

Apr 2014-May 2017 Senior Software Engineer, *Canonical*

- Developing, testing, maintaining and deploying code for automated deployment of the various services that make up the Ubuntu App Store, as part of a team of infrastructure/operations focussed engineers.
- Re-deployed and modernised the deployment utilities/environment for the main endpoint for Ubuntu Apps / Snaps, giving developers full control and with no downtime.
- Worked with teams to cross-pollinate ideas and utilities, bringing a DevOps way of thinking to peoples workflows, with a greater deal of communication and sharing.

- Lead the DevOps guild to more greatly foster cross-functional knowledge sharing, and empathy between different teams.
- Re-factored, open sourced, maintain and speak at user groups about the [conn-check](#) network monitoring and verification utility, now used by pretty much every group doing operations at Canonical, and with a growing number of external users.
- Worked on pretty much every deployment and operations code behind the Ubuntu App Store (and some limited feature development), including better developer tooling, switch/immutable deployments, Elasticsearch scaling, Kubernetes deployments, and continuous deployment pipelines.
- First line on-call duties for the Ubuntu App Store.

Oct 2011-Apr 2014 Senior Product Engineer, *Server Density*

- Senior engineer leading development of Server Density v2, re-imagining SD as multiple SOA web services in whatever fits the bill (Python, Node, PHP etc.)
- Traveling to conferences and user groups giving talks on various topics, discoveries and project arisen from v2 (codename Honshuu), as well as evangelising SD, and including writing blog posts on a variety of dev topics for a 10k+ subscriber base.
- Driving the open sourcing of as much as possible (*py-serverdensity, sd-proxy, skyhooks, sockii, trequests, mendedstring* etc.)
- On-call operations duties, handling out of hours server admin and debugging of issues.

Aug 2009-Oct 2011 Developer, *Isotoma Ltd.*

Jun 2007-Aug 2009 Web Developer, *Sense Internet*

Oct 2006-Jun 2007 Trainee Systems Analyst, *HSBC Bank plc.*

Volunteer/Other Achievements

Nov 2012-2014 Curator, *PHP Weekly*

2009-2011 Volunteer, *Leeds 2600 meetings, Leeds*

2003-2006 Volunteer, *FreeSide Network, Hull University, www.free-side.co.uk*

PERSONAL DETAILS

Date of Birth: 14/06/1984

Interests include: Spending time with my kids and wife; Comic Book Author; Collecting Pocket Watches; Japanese Martial Arts; late night Gru impersonations

REFERENCES ARE AVAILABLE ON REQUEST