Andrew Howden

Personal Information

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Professional Background

Global Fashion Group

Dates	2019-04 - 2019-09
Location	Berlin, Germany

Achievements

- Kicked off the replacement of Jenkins CI with the more modern, version control driven CircleCI

Sitewards GmbH

Dates	2016-10 - 2019-04
Location	Frankfurt, Germany

Achievements

- Designed and implemented the infrastructure, monitoring and deployment definitions of several production e-commerce systems.

- Transitioned the company from the monitoring service "New Relic" to the open source "Prometheus".

- Designed and implemented CI/CD for a variety of PHP, Node, Ansible and static HTML services in both BitBucket Pipelines and Travis CI

- Designed and implemented the "incident response" process used for technical crisis management and resolution.

- Collaborated in the detection and remediation of unauthorized access to a significant service.

- Qualified as a "Certified Kubernetes Administrator".

- Helped with the organisational understanding of and adjustment to the "General Data Protection Legislation" (GDPR) as it applied to Germany.

- Implemented a centralised, community managed knowledge base.

- Evangelised the use, implementation and understanding of various kinds of diagnostic data such as time series, logs, traces and other system introspection tools.

- Helped implement team analytics to determine the health, mood and stress levels of the organisation.

- Developed or contributed to both helm chart and ansible roles for OSQuery and the OSQuery fleet management tool "Kolide Fleet".

- Organised and chaired development community meetings designed to facilitate knowledge sharing.

- Helped facilitate an employee evaluation and growth framework.

- Debugged countless complex production outages.

Fontis PTY LTD

Dates	2014-10 - 2016-04
Location	Melbourne, Australia

Achievements

- Collaborated in the maintenance, feature development, deployment and management of multi-million dollar e-commerce stores.

- Primarily responsible for several major software migrations, site redesigns and feature developments such as the GAZ MAN redesign, Bing Lee checkout redesign and MageAudit.

- Developed a structure for deploying applications onto Kubernetes continuously, including numerous safety checks.

- Developed a structure for automatically checking the style and quality of code as part of the standard review process.

- Developed provisioning tools that create and manage a Kubernetes cluster that tolerates failure of an application, machine or network partition.

- Developed a template for a JavaScript module that can be loaded by dependency management systems asynchronously.

- Contributed to open source projects such as Ecomdev_CheckItOut, Boilr and Modd.

Skills & Knowledge

Specialising in developing open source software related to the development, deployment, monitoring and management of internet facing software. List of competencies include:

Software Languages	PHP · HTML · CSS · SASS · Bash · ECMAScript (JavaScript) · Golang · Python · Make · Ruby · JSON+LD · RDFa · sh · SQL
Frameworks	Magento · Laravel · Symfony · Joolma · Hugo · Bootstrap · PostCSS · Phing · Grunt · Polymer · RequireJS · Composer · Bower
Operating Systems	Linux · Windows · Debian · Ubuntu · CentOS · Arch · CoreOS
Infrastructure	Docker · Rkt · Kubernetes ·Virtualbox · NGINX · Apache HTTP · Docker Compose · Calico · Flannel · TravisCI · Jenkins · Netcat · Tcpdump · cURL · Aptitude ·Yum · Picfit
Monitoring	Prometheus · Sensu · Logstash · Beats · Elasticsearch · Kibana · Grafana
Testing	Selenium · Facebook Web Driver · PHPUnit
Software Analysis	PHP · PHPCS · eslint · scss-lint · jsonlint
Website Analysis	Google Analytics · Chrome DevTools · Lighthouse · Google PageSpeed Insights · Qualsys SSL Test
Network Protocols	HTTP/1.1 · HTTP/2 · FastCGI · TCP · UDP · TLS/SSL
Cloud Services	Amazon Web Services · Google Cloud · Let's Encrypt
Security	Pass · PGP ·GnuPG · OpenSSL · HSTS · CSP · Nmap
Development	Boilr · Intellij IDEs · Atom · Git · Arcanist · Phabricator · GitHub · Request Tracker · Modd · strace · strings · xdebug · xdd

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