

Andrew Howden

Personal Information

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Professional Background

Global Fashion Group

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| 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

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| 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 Newlic” 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

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| 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:

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|---------------------------|---|
| 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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