

Andrew Howden

✉ hello@andrewhowden.com



Personal Data

Name Andrew Howden

Address Malapertstraße 7
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Germany

Date of Birth 17.07.1990

Marital Status Married

Primary Language English

Nationality Australian

Website <https://www.andrewhowden.com>

Professional Background

10/2016 - 10/2018 Sitewards GmbH

Frankfurt am Main, Hessen

- Designed and implemented several production e-commerce systems using a variety of infrastructure as code technologies.
- Managed the organisational transition between monitoring with New Relic to Prometheus.
- Designed and implemented CI/CD services for several systems based on BitBucket Pipelines and Ansible or Kubernetes.
- Implemented the “incident response” process used for crisis management and rapid resolution when systems unexpectedly fail.
- Collaborated in the detection and remediation of unauthorized access to a major service.
- Completed the “Certified Kubernetes Administrator” exam
- Wrote ~70 articles on a variety of systems and development related topics.
- Planned and helped execute reviews associated with the GDPR legislation, as it applied to Germany.
- Implemented a centralised, community managed knowledge base (or “wiki”).
- 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 health, mood and stress levels of the organisation.
- Developed both helm charts and ansible roles for OSQuery and the OSQuery fleet management tool “kolide”.
- Organised and chaired development community meetings designed

- to facilitate knowledge sharing.
- Helped design an employee evaluation and growth framework.

10/2014 - 10/2016 Fontis Pty Ltd
Melbourne, VIC

- 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.
- Consulted about the implementation of new technologies including HTTP/2, Kubernetes, Docker and ServiceWorker.
- Consulted about the design of networks with a view to reduce the cost of load balancing traffic, overcoming limitations with Amazon Web Services.
- 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.

02/2014 - 10/2014 Shop At Pty Ltd
Torquay, VIC

- Designed and implemented a multi merchant, multi site online store.
- Managed a team of 4 developers in the ongoing maintenance of that store.

09/2011 - 01/2014 Mumentity
Geelong, VIC

- Developed several websites for different areas of the business.
- Built an integration between the Cliniko health SAAS and the websites.
- Developed a PHP SDK for the Cliniko REST API

Education

12/2008 Belmont High School
- Completed year 12

Skills and 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 Management and Docker · Rkt · Kubernetes · Virtualbox · NGINX · Apache HTTP · Docker Compose · Calico · Flannel · TravisCI · Jenkins · Netcat · Tcpdump ·

Introspection 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 · Qualys 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 and Encryption Pass · PGP · GnuPG · OpenSSL · HSTS · CSP · Nmap

Development Tools Boilr · IntelliJ IDEs · Atom · Git · Arcanist · Phabricator · GitHub · Request Tracker · Modd · strace · strings · xdebug · xdd

Private Interests

Boxing · Rock Climbing · Hiking · Travel · Development · Pentesting · Writing · Gaming · Twitter