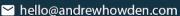
Andrew Howden





Personal Data

Name Andrew Howden

Address Malapertstraße 7

Frankfurt am Main 60320

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 Newlic 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 Momentity

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 PHP · HTML · CSS · SASS · Bash · ECMAScript (JavaScript) · Golang ·

Languages 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 Management and 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 · 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

 $\textbf{Security and} \quad \mathsf{Pass} \cdot \mathsf{PGP} \cdot \mathsf{GnuPG} \cdot \mathsf{OpenSSL} \cdot \mathsf{HSTS} \cdot \mathsf{CSP} \cdot \mathsf{Nmap}$

Encryption

Development Boilr · Intellij IDEs · Atom · Git · Arcanist · Phabricator · GitHub · Request

Tools Tracker · Modd · strace · strings · xdebug · xdd

Private Interests

 $Boxing \cdot Rock \; Climbing \cdot Hiking \cdot Travel \cdot Development \; \cdot Pentesting \cdot$

Writing · Gaming · Twitter