

# Andrew Howden

✉ hello@andrewhowden.com



## 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 [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”](#).
- Wrote [approximately 70 articles](#) on a variety of systems and development related topics.
- 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](#).

**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.
- 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 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 Introspection** 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 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