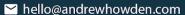
# **Andrew Howden**





## 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 the infrastructure, monitoring and deployment definitions of several production e-commerce systems.
- <u>Transitioned the company</u> 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 <u>Travis CI</u>
- Designed and implemented <u>the "incident response" process</u> 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 <u>approximately 70 articles</u> 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 <u>team analytics to determine the health, mood</u> <u>and stress levels</u> of the organisation.
- Developed or contributed to both <u>helm chart</u> and <u>ansible roles</u> 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 <u>complex production outages</u>.

### 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** 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 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**

 $\textbf{Boxing} \cdot \textbf{Rock Climbing} \cdot \textbf{Hiking} \cdot \textbf{Travel} \cdot \textbf{Development} \cdot \textbf{Pentesting} \cdot$ 

Writing · Gaming · Twitter