

# Felix Hanley

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I am a software engineer based in Australia.

Over many teams and years of experience in a variety of environments I have developed a broad range of skills and designed & delivered some high quality software. I enjoy the “craft” of software development and try to keep abreast of current research (in more areas than I often need!) and practices, evaluating them in current projects and teams.

I have been pivotal in the success of many teams, both as a player and lead, with much experience in training and mentoring, being able to explain technical topics clearly.

My publicly available source code is available at <https://src.userspace.com.au> and some things mirrored at [GitHub](#) and/or [GitLab](#).

*References available on request*

## Principal Software Engineer, MYOB (*April 2019 – present, Australia*)

An Australian multi-national corporation that provides tax, accounting and other business services software to small and medium businesses.

As a principal engineer I am across a number of areas as a technical lead, particularly in the observability space and DevOps services.

- Architecture and implementation of centralised event processing service (*Go, AWS, OpenTelemetry*)
- Development of a distributed tracing service (*Go, OpenTracing, Kubernetes, AWS*)
- Architecture and lead for centralised service catalogue (*TypeScript*)
- Mentoring and coaching across multiple teams
- Strong focus on system performance, reliability, and cost efficiency

## Solutions Architect, UserSpace (*2006 – present, Melbourne, Asia & remote*)

Melbourne based hosting, development and consulting services to Australian and SE Asian clients.

Most recently:

- Consulting for the ISO/IEC 20248 (DigSig) 2021 revision, particularly the applied cryptography components
- Design and development of DigSig solutions for Thailand government agencies (*Go, Javascript, WASM*)
- Design and development of custom machine learning pipelines for Thai language customers (*Go, Python*)
- Provisioning of BSD based hosting services including highly available databases and load balanced servers (*BSD, Ansible, HAProxy, Postgresql*)
- Providing free DNS service, custom dynamic DNS and OpenNIC services (*PowerDNS, TinyDNS, Python*)

Over the years:

- Developed custom hosting control panels (*Go, AngularJS, Ruby on Rails, Shell*)
- Developed and maintained custom support and monitoring software for clients (*Python, Shell*)
- Designed and built custom REST API for a number of SaaS clients (*Go, Sinatra*)
- Designed and built custom e-commerce integrations for international clients (*Magento, Spree, Ruby, SQL, PHP, XML*)

## Senior Software Developer, Seer Security (*July 2018 – April 2019, Melbourne*)

A small security business with products used by a number of government agencies.

I was the technical lead/architect for a social-network content extraction and classification engine, built to government specifications.

- Developed a distributed content extraction engine and plugin architecture (*Go, Python, PostgreSQL*)
- Developed content extraction logic for multiple platforms and APIs (*Javascript, Python*)
- Maintained extensive tests and CI integration using machine learning datasets (*Gitlab, Docker, AWS*)

## Senior Software Engineer, Freestyle Technology (*June 2017 – July 2018, Melbourne*)

An IoT technology company providing hardware and software solutions to service providers and municipalities across SE Asia and Australasia. Their solution involves “smart” devices and real time control.

I was pivotal in the design and architecture of a custom ETL and rules processing pipeline, ingesting from large deployments of devices, and the APIs required to consume this data.

- Developed distributed network stream processing engines ingesting from millions of devices (*Go*)

- Designed and implemented numerous supporting APIs (*Python, Awk, Shell, Docker, AWS*)
- Designed, implemented and administered supporting services and infrastructure (*PostgreSQL, PL/pgSQL, InfluxDB, TimescaleDB*)
- Maintained excellent test coverage and CI services (*TAP, Jenkins, Groovy*)

### Senior Software Engineer, [KL Data/ARKpX](#) (2015 – 2017, Remote)

A small team developing a cross-platform, encrypted storage solution much like ‘Dropbox’ but using client-side, PKI cryptography. Products in use by multiple government departments.

I was the lead developer on the core cryptographic library to be used by multiple front-ends.

- Lead development of core Javascript cryptographic library (*Javascript*)
- Developed custom ASN.1 schemas for CMS (RFC 5952) communications (*ASN.1, X.509*)
- Created extensive cross-browser test suite and maintained CI (*Node, Bamboo CI, Selenium*)
- Maintained UI elements across all modern browsers (*AngularJS*)

### Software Engineer, [Ayuda Hosting](#) (2010 – 2015, Melbourne & remote)

A traditional, “bare-metal” hosting and consulting company with a small team based in the Melbourne CBD.

I was involved in all areas of network design, data centre rack planning & installation, project planning & cost estimation, client programming and consulting.

- Managed large, redundant networks, firewalls and VMs (*Xen, Keepalived, IPTables, IPsec, PF*)
- Developed numerous client websites and applications (*PHP, Javascript, HTML/CSS*)
- Developed custom control panel and billing software (*PHP, SQL, Shell*)
- Developed in-house CMS software with a custom ORM and plugin system
- Implemented large configuration systems (*CFEngine, Puppet*)
- Administrated highly available and redundant server clusters (*Apache, Nagios, Postfix*)
- Brought many large projects to completion

### Web developer, [Sensory Networks](#) (2005 – 2006, Sydney)

Developed and maintained internal, cross-continent warehouse application (*PHP, HTML, CSS, Lua, MySQL, XSLT*)

### Programmer/analyst, [Contract](#) (2002 – 2005, Outback Australia)

Custom solutions for mining contractors. Deployment of BSD VPNs, LDAP and email systems.

### Programmer/DBA, [National Telecoms Group](#) (2001 – 2002, Sydney)

Development on a large CRM used by 300+ seat call centers (*VB, SalesLogix*)

### Programmer/Sysadmin, [DefineIT/Macquaraine Health](#) (2000 – 2001, Sydney)

Hardware support and maintenance of C/C++ code.

### Education

2001 Bachelor of Computer Science and Software Engineering, [The University of Sydney](#)

1994 Bachelor of Applied Science and Computer Technology, Swinburne University (*deferred*)