

# Amber Brown

“HawkOwl”

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Location: Melbourne, Australia

## Profile

A bright spark with a drive for improving people’s lives through technology.

## Core Skills

- Fast learner with history of rapid acquirement of on-the-job skills.
- Dedicated to the improvement of self, others, and processes.
- Confident working alone or as part of a team.
- Developed problem-solving and analytical skills.
- Resourceful and efficient, with a talent for improvisation.
- Strong written and verbal English competency.
- Empathetic and ethical in personal and professional contexts.

## Education

- Western Australian Certificate of Education (HS Diploma) — 2010
- MCSA, MCITP, MCTS (certification, MS Windows 7) — 2011/2012
- Certificate IV in Frontline Management (training portion) — 2012

## Speaking Engagements

**Building Better Web APIs** (PyCon Australia 2014)

**What Django Can Learn From Twisted** (DjangoCon 2015 Keynote, Django Under The Hood 2015, PyCon TW 2016 Keynote)

**Slow Down, Compose Yourself** (PyCon Australia 2015)

**The Future of Twisted** (PyCon Czech Republic 2015 Keynote)

**The Report of Twisted’s Death** (PyCon US 2016)

**Releasing Calendar Versioned Software** (PyCon Australia 2016)

## Work Experience

**Core Contributor, Release Manager, and Fellow** (Twisted Matrix Labs)  
2013 — ongoing *Python, Py3 Porting, Windows, Linux*

- Participated in producing patches for Twisted, providing code reviews for other contributor patches, and merging said patches when they have met quality standards.
- Involved in a significant amount of porting Twisted to Python 3 (~27K lines of code, or ~20% of the codebase).
- Performed at least thirteen major Twisted releases, and a half dozen security releases.
- Maintained ecosystem projects under the Twisted Matrix Labs banner, including porting Treq and Klein to Python 3, and spinning out Constantly and Incremental from the Twisted codebase to free-standing libraries.
- Maintained Twisted’s infrastructure, including web servers, database server, and BuildBot server, and automated performance testing server.
- Undertook a paid fellowship for Twisted in 2015/2016, being responsible for reviewing tickets submitted by others that may not have got attention.
- Acted as a public representative of the Twisted Project, publicising changes, doing developer advocacy at conferences and meetups, and representing the project in the 2016 Python Language Summit.

## Work Experience

### Owner (Ninox Networks)

2012 — ongoing

*Python, Py3 Porting, Twisted, Training*

- Received a grant from the Python Software Foundation to port an essential part of Twisted to Python 3 — the Trial test runner. Fulfilled the grant objectives on time, releasing a ported Trial in Twisted 15.4.
- Provided a two-day training course on Twisted at Boeing Defence Australia.
- Participated in the development and later refactoring of the Optima 2.0 HIV spending & analysis web application code and production deployment code.

### Contractor (Tavendo GmbH)

January 2015 — ongoing

*Python, Py3 Porting, Twisted, Linux, FreeBSD*

- Contributed to the development of Crossbar.io WebSocket router and Autobahn WebSocket library, including overhauling the logging in Crossbar.io, increasing the test coverage of the codebases, and porting Crossbar.io to Py3.
- Developed a binary release process for Crossbar.io, producing native packages.
- Wrote a clean-room implementation of MQTT for use in Crossbar.io.

### Software Developer (SignIQ)

April 2014 — January 2015

*Python, Django, Linux*

- Worked in an agile team to get a Minimum Viable Product into the hands of a customer using an old version. Developed large amounts of the product's core, including search, the user interface, and import & data enrichment.

### IT Officer (Shire of Wyndham-East Kimberley)

October 2008 — November 2012

*.NET, Windows Server, Windows*

- As part of a small team, maintained over 110+ client Windows systems and 8+ servers across four major locations and many more satellite offices.
- Located operational inefficiencies and wrote automation tools to eliminate it — eg. creating tools for optimising our helpdesk and a deployment tool which could get a freshly configured PC on a desk within 20 minutes.
- Developed a “digital in-out board” which was used by reception to route calls and other information requests to people in the office, which was a challenge with such a distributed Shire. The system was in production from '09-'15.
- Developed a Flight Information Display System in cooperation with my manager, saving the Shire in excess of \$100,000 by using off-the-shelf hardware, and custom software. The project was a great success and has run continuously with little required intervention since 2011.

## Event Volunteering

### Organiser/Mentor (Django Girls, Perth{Web}Girls workshops)

2014 — ongoing

*Python, Django, Event Management*

- Organised Django Girls Australia 2015 and three Perth{Web}Girls (Django Girls + Rails Girls or HTML+CSS dev) workshops, designed to teach women programming skills, which combined had over 200 attendees.

### Organiser (GovHack Perth)

2015, 2016

*Event Management*

- Assisted in organisation of GovHack Perth, a hackathon on open government.