

# Tyson Clugg

Experienced Technology Leader

Code

Databases

Networks

Security

DevOps

DevEx

📍 Melbourne AU

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## Executive Summary

A highly experienced and trustworthy technology leader with experience in software, security, databases, and networks. Increasing team velocity through improved developer experience and system observability. Enabling team improvement through mentoring and high quality documentation. Reducing operational overheads and improving security through automation, complexity reduction, and process improvement. Trusted by the Australian Government with Baseline security clearance. Looking for a long term commitment (5+ years) where I can leverage my experience as team leader or CTO.

## Career Highlights

Lead development and deployment of secure, high performance, high availability services into complex government target environments within 6 months, where no other team had managed to do so. Won contract to supply access control solution to Ticketek stadiums across Australia. Discovered a new class of security vulnerabilities (patent and disclosure pending). Authored Django DDP web framework allowing developers to build robust real-time collaborative web software.

## Technology Profile

I have a deep knowledge of Linux since RedHat 4.2 in 1997, PostgreSQL since 2.0 in 1999, and Python with Django since 2007. I've been using Debian/Ubuntu as my primary desktop and development environment since 2008. My home network has 2 backup long range wireless links connecting me to the Melbourne Wireless network using BGP and OSPF routing.

## Experience

### Founder | adpop.tv | January 2024 - Present

Digital signage solution focused on robust and reliable content delivery using commodity hardware and repurposed displays. Scale to zero cloud infrastructure to reduce costs and minimise environmental impact.

### CTO | Lilydale Lions Roller Hockey Club | August 2023 - Present

Volunteer role. Built and published new club website. Integrated accounting, event management, and newsletter systems for streamlined operations.

## **Webmaster | Melbourne Wireless | December 2003 - Present**

Volunteer role. Built CMS and website using PHP, MapServer, and MySQL. Maintained and improved website for over 20 years. Integrated node database with Google Maps for easy node location. Handled traffic referred from Slashdot, The Age, and The Herald Sun on multiple occasions. Eased developer onboarding with development containers and incremental debugging.

## **Senior Systems Analyst | Bureau of Meteorology | June 2023 - December 2023**

Lead development and deployment of secure, high performance, high availability services into complex target environments within 6 months, where no other team had managed to do so. Managed deployment of policy controlled Linux desktops and servers for safety critical operations.

## **Senior Developer | BurnsRED | December 2021 - March 2023**

Developed cross-referenced documentation build pipelines to Atlassian Confluence making details searchable from Atlassian and easily linkable from Jira tickets. Upgraded multiple Django and DRF based web services to security compliant versions of Python and Django.

## **DevOps Engineer | Unique Micro Design & CardGate.net | August 2020 - December 2021**

Consolidated metrics, APM tracing and logging from multiple services into a unified observability platform. Built a single-pane-of-glass monitoring system for all services.

## **Freelance Developer | Self-Employed | October 2019 - August 2020**

Developed and deployed multiple web applications for local and international clients.

## **References**

### **Bruce Griffin**

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### **Warren Burns**

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## **Alternate versions**

Details before 2020 have been omitted from this document for brevity. Other versions are available at [clugg.net/tyson](https://clugg.net/tyson) with options to include sections suiting your needs.