

# Adrian Wedd

AI Safety Engineer & Independent Researcher

Cygnet, Tasmania, Australia

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## ABOUT

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AI safety researcher and systems developer building the systems I study. Currently freelancing and shipping independent projects — from a red-teaming framework for embodied AI with 104 tracked research issues, to a voice-first agentic phone system, to a four-site healthcare digital presence under AHPRA advertising regulations, to a multilingual restaurant site in Bali. Previously led systems integration and cybersecurity for Tasmania's public housing sector. Active across 15+ repositories with 1,200+ tracked issues spanning agent orchestration, AI governance, CLI tooling, and client delivery. Background in environmental advocacy, government service, and infrastructure management. Self-taught across the stack. Most interested in where AI systems break.

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## CORE COMPETENCIES

### AI Safety & Evaluation

Red-teaming, adversarial testing, failure-first methodology

### Frontier AI Models

Claude API, multi-agent systems, evaluation frameworks

### Risk Assessment

Pre-mortem analysis, FMEA, failure mode identification

### Policy Translation

Technical findings to actionable governance for decision-makers

### **Freelance Developer & AI Consultant**

Independent 2025 - Present

Delivering client web projects and independent AI research while exploring full-time opportunities. Current client work includes a multi-site healthcare digital presence under AHPRA advertising regulations, with Cliniko API integration and phased project delivery. Concurrently building open-source AI safety tooling, multi-agent frameworks, and CLI automation tools.

- Delivered four-site healthcare digital presence with AHPRA regulatory compliance and Cliniko API integration
- Built and maintained 10+ active open-source repositories spanning agent orchestration, AI governance, and CLI tooling
- Developed failure-first methodology for AI safety evaluation across multi-agent systems

Python, JavaScript, HTML/CSS, Cloudflare Pages, Claude API, GitHub Actions, Cliniko API

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### **Systems Analyst / Acting Senior Change Analyst**

Homes Tasmania (formerly Department of Communities Tasmania) 2018 - Feb 2026

Leading systems integration and digital transformation initiatives for Tasmania's public housing sector. Specializing in API development, cybersecurity enhancement, and automation solutions that improve service delivery for vulnerable communities.

- Enhanced Housing Management System integration with external services using RESTful APIs and SFTP
- Led cybersecurity initiatives improving system security and reducing vulnerabilities
- Developed automation scripts in Python, PowerShell and JavaScript streamlining operations
- Pioneered use of generative AI for data analysis and decision-making processes

- Improved operational efficiency through strategic systems integration and process optimization

Python, PowerShell, JavaScript, RESTful APIs, SFTP, SQL, Azure

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## **ITS Client Services Officer**

University of Tasmania 2015 - 2018

Provided comprehensive IT support and technical solutions for university staff and students. Specialized in Microsoft technologies, troubleshooting complex technical problems, and developing procedural documentation.

- Delivered first-line IT support resolving complex technical problems across diverse user base
- Developed comprehensive procedural documentation improving support team efficiency
- Supported Microsoft technology stack ensuring optimal performance for academic environment
- Maintained high user satisfaction through prompt problem resolution and clear communication

Microsoft 365, Windows Server, Active Directory, ITIL, ServiceNow

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## **Director**

Digital Agency PTY LTD 2015 - 2018

Founded and operated digital marketing agency specializing in helping nonprofits and small businesses maximize their digital impact. Expert-level certified across Google and Bing advertising platforms.

- Enabled nonprofits and small businesses to measure digital effectiveness with Google Analytics
- Attracted new audiences through strategic Google AdWords and Google Ad Grants implementation
- Achieved expert-level certification across Google and Bing advertising platforms

- Delivered measurable digital marketing results for diverse client portfolio

Google Analytics, Google AdWords, Bing Ads, Digital Marketing, Campaign Management

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## **Second Level IT Support Engineer**

The Wilderness Society Inc. 2012 - 2015

Managed comprehensive IT infrastructure for national environmental organization. Specialized in lifecycle management of diverse server environments, network infrastructure, and communication systems.

- Managed lifecycle of 60+ Windows/Debian/Ubuntu servers ensuring optimal performance
- Maintained heterogeneous network infrastructure supporting distributed organization
- Administered Google Apps infrastructure and VOIP PBX systems
- Executed complex upgrades, implementations, migrations and decommissioning projects

Windows Server, Debian/Ubuntu, Network Infrastructure, Google Apps, VOIP PBX, Server Management

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## **Communications and Logistics Coordinator**

Greenpeace Australia Pacific 2010 - 2012

Coordinated high-profile environmental campaigns combining technology, logistics, and strategic planning. Specialized in risk assessment, security planning, and ICT support for direct action initiatives.

- Planned and coordinated logistical implementation of direct actions and protests
- Developed comprehensive risk assessments and security plans for campaign activities
- Provided ICT support for actions ensuring reliable communication systems
- Delivered activist training programs building organizational capacity

ICT Systems, Communications, Risk Assessment, Security Planning, Logistics Management

### NotebookLM Automation

GitHub

CLI automation toolkit for Google NotebookLM with research quality controls, deterministic exports, template engine, JSON schema validation, and comprehensive integration testing.

Bash Python CI/CD JSON Schema

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### Orbitr

GitHub

Multi-track polyphonic AI sequencer with concentric ring interface. Inspired by Playtronica's Orbita, enhanced with Meta's MusicGen for real-time sample generation. 36 issues tracked across phased delivery.

HTML/CSS/JS MusicGen Web Audio API

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### Evolve Evolution

Four-site digital presence for a healthcare practitioner: AHPRA-compliant chiropractic clinic site, coaching/personal brand platform, author hub, and business evolution site. Shared CSS design token system, Cliniko API integration for appointment management, GA4-to-GTM analytics migration, Cloudflare Pages deployment with serverless functions, and quarterly regulatory compliance workflow. 170+ issues tracked across phased delivery.

HTML/CSS/JS Cloudflare Pages Cliniko API GA4/GTM Structured Data

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### Tanda Pizza

Static website for a Bali-based restaurant, localized to 5 languages with WhatsApp ordering integration and gluten-free menu filtering.

HTML/CSS/JS i18n WhatsApp API

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### Failure-First Embodied AI

GitHub

Red-teaming and benchmarking framework for embodied and agentic AI systems. Focused on recursive failure analysis, recovery evaluation, and human-in-the-loop safety. Includes automated attack adapters (TAP), cross-modal vulnerability research on VLA models, arXiv paper synthesis pipeline, and a customer discovery track for commercial AI safety services.

Python AI Safety Red-teaming NotebookLM arXiv

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## TEL3SIS

GitHub

Real-time telephony platform with LLM-powered conversations, tool use (calendar, SMS, email), tri-layer memory (Redis/SQLite/vectors), safety oracle for pre-execution checks, and human handoff. Built on vocode-python with Whisper, GPT-4, and ElevenLabs.

Python Vocode Whisper Redis Docker

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## Cygnnet

GitHub

Multi-agent platform coordinating land acquisition, build planning, and 3D print operations for affordable housing. 28+ specialized agents, FastAPI backend, React frontend. 795 issues tracked, 432 commits across Python, TypeScript, Kotlin, and Swift.

Python FastAPI React TypeScript Docker

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## VERITAS

GitHub

Legal intelligence platform addressing the efficiency-trust deficit in the legal market. Knowledge graph with Cypher queries, document analysis pipeline, and transparency-first AI reasoning. 230 issues, 784 commits across Python, TypeScript, and Jupyter notebooks.

Python TypeScript Neo4j/Cypher Jupyter Docker

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## ADHDo

GitHub

AI assistant for ADHD executive function support with crisis detection, circuit breaker psychology, and local-first processing. NDIS-aware for Australian users. 100 issues, 73 commits.

Python AI Safety Accessibility

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## NeuroConnect

GitHub

24/7 voice helpline with wired STT-to-LLM-to-TTS pipeline over Twilio, NDIS evidence logging, and executive function scaffolding. Multi-provider LLM fallback chain including Claude CLI.

Python Twilio Whisper Docker

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## RLM-MCP

GitHub

MCP server enabling Claude Code to process 1M+ character documents through session-based chunking, BM25 search, and artifact provenance tracking.

Python MCP BM25 Claude Code

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## Agentic Research Engine

GitHub

Next-generation multi-agent research system with LangGraph orchestration, self-correction loops, and autonomous learning. 1,001 commits across Python with CI/CD cost optimization and enterprise security integration.

Python LangGraph Multi-Agent Systems Docker

SKILLS

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Programming Languages

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Python	Primary
JavaScript	Primary
TypeScript	Secondary
PowerShell	Secondary

AI & Automation

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LLM Integration	Primary
AI Safety & Evaluation	Primary
Process Automation	Primary
MCP Development	Secondary
Voice/Telephony AI	Secondary

Infrastructure

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Systems Integration	Primary
Cybersecurity	Primary
Linux/Windows Server	Primary

DevOps

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Docker	Secondary
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GitHub Actions	Primary
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Cloudflare Pages	Secondary
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## Frontend

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React	Secondary
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## Data

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SQL / PostgreSQL	Primary
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## ACHIEVEMENTS

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### **Systems Integration Excellence**

Enhanced Housing Management System integration with external services using RESTful APIs and SFTP, improving data exchange and operational efficiency for Tasmania's public housing sector.

2018-2024

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### **Cybersecurity Leadership**

Led cybersecurity initiatives at Homes Tasmania, improving system security posture and reducing vulnerabilities across critical housing management systems.

2020-2024

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### **AI Safety Research & Red-Teaming**

Developed failure-first red-teaming framework for embodied AI systems with 104 tracked research issues, cross-modal vulnerability analysis on VLA models, and automated attack adapters. Pursuing commercial AI safety services.

2025-2026

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### **Voice-First AI Agent Platform**

Built TEL3SIS, a real-time telephony platform with LLM-powered conversations, tri-layer memory architecture, safety oracle, and tool orchestration across 226 tracked issues.

2024-2026

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### **Environmental Campaign Technology**

Managed IT infrastructure for The Wilderness Society and coordinated Greenpeace campaigns, combining technology expertise with environmental advocacy.

2010-2015

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### **Professional Certifications**

Achieved certifications across Google Analytics, AdWords, and Bing Ads platforms.

2015

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## **Automation & Process Improvement**

Developed automation scripts in Python, PowerShell, and JavaScript that streamlined operations across multiple organizations.

2018-2024

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## **Adrian Wedd**

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