BRADLEY DEAN

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PROFESSIONAL SUMMARY

Technical Author and Software Engineer specialising communication and development of open-source technologies in production of large scale software projects.

Exceptional communicator with proven ability to bridge technical and non-technical stakeholders, coordinate across global teams, and maintain clear documentation. **17 years of successful remote work** demonstrates strong async communication, relationship-building, and self-management skills. Recent focus on **AI/LLM integration** to enhance development workflows, code quality, and incident response. **Passionate about continuous learning** and adopting emerging technologies to drive measurable business value.

KEY ACHIEVEMENTS

- **Building effective, focused and reader-centric technical documentation** applying the Diátaxis framework.
- Leading **Documentation lead development** to maximise requirements and solution alignment and accurate documentation.
- **Served as Principal Software Engineer & Technical Lead** for five years, overseeing technical architecture, security, data privacy (GDPR), system reliability and application development and company acquisition due diligence.
- **Architected high-availability infrastructure** implementing redundancy and disaster recovery systems that achieved 99.7% uptime
- **Reduced infrastructure costs by 80%** through strategic cloud optimization, efficient resource allocation and physical server optimization
- **Led and mentored remote development team** of 6 developers across 5 countries/time zones, fostering collaborative culture through effective communication
- **Pioneered AI/LLM integration** across development lifecycle, to accelerate development, improve code quality, and streamline incident response
- **Maintained zero security breaches** while managing GDPR compliance and developing and implementing robust security protocols
- **Delivered consulting projects** including penetration testing for Victorian Electoral Commission and weather modeling for Defence Science and Technology Organisation

CORE COMPETENCIES

Technical Leadership & Communication • Remote Team Leadership • Cross-Functional Collaboration • Stakeholder Communication • Technical Documentation • Mentoring & Training • Incident Management & Coordination	**Technical Author** • Diátaxis framework practices • Reader-centric documentation design • Documentation-lead development • Code / Documentation alignment • International group-communication and community building
Programming & Development • Python, JavaScript, PHP, Perl, SQL • Full-Stack Web Development • RESTful Web Services & APIs • System Architecture & Design • Code Review & Quality Assurance	**AI & Emerging Technologies** • Secure, appropriate us of AI tools • Efficient budgeting - minimising waste • AI/LLM Integration (Claude, Gemini, Copilot) • MCP Service Development • Automated Agentic Data Flows • AI-Enhanced Development Practices • Legacy Code Modernization

Security & Compliance • GDPR System Design & Policy • Information and Network Security • Security Audits & Penetration Testing • Data Protection	**Infrastructure & Operations** • Cloud Infrastructure (AWS, Digital Ocean) • High Availability Design • Database Administration (MySQL) • System Monitoring & Performance • Configuration as Code

PROFESSIONAL EXPERIENCE

Canonical Kernel Team APAC Technical Author

Canonical | Victoria, Australia | *2026 - ongoing*

- **Specialist Technical Author for the Canonical Ubuntu Kernel Team (APAC)**
- Supporting documentation for the **Ubuntu Linux Kernel** and **Canonical Documentation Practices**
- Applying and championing **Diátaxis framework** practices
- Leading **reader-centric documentation** design
- Applying **documentation-lead development** to maximise requirements and solution alignment and accurate documentation.
- Design ensuring **code / documentation alignment** to minimise product/documentation divergence
- Building internal social capital through international group-communication and community building
- AI-enhanced workflows applying efficient token-reduction strategies and appropriate targeted application including prompt and SKILLS engineering, MCP services and agentic workflows.

Principal Software Engineer & Technical Lead

Home.co.uk | Cambridge, UK (100% Remote from Australia) | *2020 - 2025*

- **Led technical architecture and operations** for property data platform (website and APIs) ensuring high system availability, performance and security across all services
- **Led and mentored remote development team** of 6 developers across 5 countries, fostering collaborative culture through clear communication and tracking supported by comprehensive documentation
- **Participated in company acquisition due diligence** (2025), preparing comprehensive technical documentation, infrastructure assessments, and security reviews for prospective buyers, demonstrating trusted advisor status at executive level
- **Championed AI/LLM introduction** across development and analysis lifecycles, implementing Claude API, Copilot, and custom MCP services to accelerate development, improve code quality, and streamline incident response
- **Architected and implemented GDPR-compliant data protection systems**, establishing policies, technical controls and automated processes to manage user data while maintaining regulatory compliance
- **Coordinated incident response and stakeholder communications**, managing relationships with services providers, translating technical issues for business stakeholders, and maintaining calm under pressure
- **Reduced infrastructure costs by 80%** through strategic cloud optimization, efficient resource allocation and physical server optimization
- **Maintained comprehensive technical documentation** and knowledge base, supporting onboarding and long-term institutional knowledge for 2 million+ lines of code, ensuring business continuity through clear communication of system architecture and processes

Senior Developer / Architect

Home.co.uk | Cambridge, UK (100% Remote from Australia) | *2013 - 2020*

- **Architected high-availability infrastructure** implementing redundancy and disaster recovery systems that achieved 99.7% uptime
- **Scaled server deployment and management** as the company grew from small business with on-premises hardware to enterprise operations across multiple data centres and cloud platforms
- **Introduced and deployed comprehensive monitoring systems** that decreased incident detection time by 90+%, including targeted escalation of alerts to optimize recovery times
- **Led cross-functional collaboration** with business and technical founders, translating technical capabilities into business value and communicating project status effectively to non-technical stakeholders
- **Developed security protocols and best practices** for team adoption, conducting security audits and implementing improvements that strengthened system resilience, design and implement secure system access supporting remote workers and diverse operating environments
- **Optimized database performance and application efficiency**, targeting bottlenecks and effective optimizations to support best public-facing experience while avoiding over-optimizing backend time-flexible processing

Senior Developer / Perl Consultant

Home.co.uk | Cambridge, UK (Remote from UK, Australia) | *2008 - 2013*

- **Successfully established remote working relationship** with UK-based team from Australia, demonstrating exceptional async communication, self-management, and reliability over 5 years
- **Introduced trackable ticket system** replacing pen-on-paper "TO-DO" tracking, enabling company scaling, remote work, and comprehensive workflow tracking and history
- **Created automated web scraping and data mining systems** gathering property data from more than 40 sources, establishing foundation for company's data platform
- **Provided technical consultation and mentorship** to team members, fostering knowledge sharing through clear documentation and patient communication

Software Development & Systems Administration Consultant

Various Clients | Victoria, Australia | *2008 - 2025*

Selected consulting engagements demonstrating versatility and specialized expertise:

- **Victorian Electoral Commission (VEC)** - Conducted penetration testing and security auditing for electronically assisted voting systems, ensuring election integrity and support for languages other than English and visually impaired voters
- **Defence Science and Technology Organisation (DSTO)** - Developed weather modeling and GIS systems for Australian defence applications, integrating complex scientific data and facilitating use of complex modelling software (simplifying access to large Fortran application)
- **Australian Mental Health Outcomes and Classification Network (AMHOCN)** - Built data cube and reporting systems for mental health outcome tracking, improving healthcare analytics
- **NHS Sustainable Development Unit (UK)** - Created automated data gathering systems for sustainability metrics, supporting environmental initiatives
- **VoteClimateUK** - Provided pro-bono data privacy consulting, systems architecture, and technical support for climate advocacy organization

Early Career Experience

Senior IT Analyst Programmer | Hermes Precisa (Centrelink Project) | 2006-2007

Led development team delivering enterprise IT solutions for Centrelink. Recognized as Employee of the Month (November 2006) for exceptional technical leadership and customer service.

Web Applications Developer / Software Engineer | The University of Melbourne | 2000-2006

Developed enterprise systems for teaching, directories, and web services. Architected proxy project saving ~$40,000 monthly. Contributed to steering groups and provided consultation across university.

CONTINUOUS LEARNING & PROFESSIONAL DEVELOPMENT

Committed to staying current with emerging technologies and industry best practices through ongoing education and hands-on experimentation, regular attendance at industry conferences

Technical Documentation (2010-ongoing)

- Building learning through documentation - maximising understanding and future application of learning
- Blogging (technical and general) since 2010
- Leading and applying **Diátaxis framework** practices at Canonical
- Leading **reader-centric documentation** design
- Applying **documentation-lead development** to maximise requirements and solution alignment and accurate documentation.
- Design ensuring **code / documentation alignment** to minimise product/documentation divergence

AI & Machine Learning (2023-ongoing)

- Secure, appropriate application of AI tools with appropriate guardrails and oversight
- Efficient token budgeting - minimising AI waste
- Experience with Anthropic Claude, Google Gemini, GitHub CoPilot environments
- Prompt and SKILLS engineering
- Interactive / command-line, agentic and workflow development
- Model Context Protocol (MCP) service development
- Learning via www.fast.ai, Kaggle, Huggingface, Google Cloud Skills Boost
- AI-enhanced software development workflows and tooling

Professional Communities & Conferences

- Regular attendance and networking at conferences (PyCon, github Galaxy, Salesforce, Cloud & AI Innovation Summit)
- Regular monitoring, learning and engagement with emerging technology trends and best practices

EDUCATION

Bachelor of Engineering (Software Engineering) – Honours | The University of Melbourne | 2001
Bachelor of Science (Physics) | The University of Melbourne | 2003

COMMUNITY LEADERSHIP & VOLUNTARY SERVICE

Demonstrated leadership, teamwork, and community commitment through active volunteer roles:

Country Fire Authority (CFA) – Operational Firefighter & Crew Leader

CFA Victoria | 2003 - ongoing

- Respond to fires and emergencies as operational firefighter and qualified crew leader, demonstrating **calm decision-making under pressure** and **clear communication in high-stress situations**
- Lead and coordinate emergency response teams, **managing personnel and resources** effectively during critical incidents
- **20+ years of continuous service** demonstrates reliability, commitment, and ability to work collaboratively in diverse teams

School Council President

Woodend Primary School | 2015 - 2020

- Served as School Council President, **leading governance** for primary school of 400 students
- **Chaired principal hiring committee**, managing school community, staff and government requirements
- **Oversaw $2M capital works project**, coordinating between architects, contractors, and educational stakeholders to deliver infrastructure improvements including new classrooms, managing safety concerns and responses and significant improvement to amenities

Previous Community Involvement

- **Webmaster** | Australian Intervarsity Choral Societies Association | 2001-2013
- **Treasurer** | Melbourne Perl Mongers | 2004-2006
- **Secretary** | Australian Intervarsity Choral Societies Association | 2001-2004
- **President** | Melbourne University Choral Society | 1999-2000

Available for immediate start | Open to remote, hybrid, or on-site roles | References available upon request