

BRADLEY DEAN

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PROFESSIONAL SUMMARY

Senior Software Engineer and Systems Architect with **20+ years** of experience leading remote, multi-national development teams. Proven track record architecting scalable, high-availability and secure systems using optimal hardware and cloud infrastructure.

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

- **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 <ul style="list-style-type: none">• Remote Team Leadership• Cross-Functional Collaboration• Stakeholder Communication• Technical Documentation• Mentoring & Training• Incident Management & Coordination	AI & Emerging Technologies <ul style="list-style-type: none">• AI/LLM Integration (Claude, Gemini, Copilot)• MCP Service Development• Automated Agentic Data Flows• AI-Enhanced Development Practices• Legacy Code Modernization• Rapid Technology Adoption
Programming & Development <ul style="list-style-type: none">• Python, JavaScript, PHP, Perl, SQL• Full-Stack Web Development• RESTful Web Services & APIs• System Architecture & Design• Code Review & Quality Assurance	Infrastructure & Operations <ul style="list-style-type: none">• Cloud Infrastructure (AWS, Digital Ocean)• High Availability Design• Database Administration (MySQL)• System Monitoring & Performance• Configuration as Code
Security & Compliance <ul style="list-style-type: none">• GDPR System Design & Policy• Information and Network Security• Security Audits & Penetration Testing• Data Protection	Development Practices <ul style="list-style-type: none">• Version Control platforms• Continuous Integration• Technical Troubleshooting• System Integration

PROFESSIONAL EXPERIENCE

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 - Present

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

AI & Machine Learning (2023-Present)

- Anthropic Claude API integration and prompt engineering
- Google Gemini API development
- Microsoft Copilot
- 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 - Present

- 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