

# Justin Bean

## Systems & Software Engineer

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## Professional Summary

I am an IT Leader, Systems and Software Engineer with nearly 30 years of deep technical experience (starting in 1998) spanning software engineering, cloud architecture, and IT infrastructure management. Throughout my career, I have held key leadership roles—including Head of IT Architecture and IT Manager—acting as a trusted technical advisor to audit core systems, lead enterprise cloud migrations, and design robust architectures. My technical capabilities are backed by a diverse educational foundation, including diplomas in Software Development, IT Management, Web Development, and Counselling, alongside specialised training in Cisco networking, Linux and Microsoft server systems. This allows me to combine strict architectural precision with high-level stakeholder engagement, mentorship, and empathetic team leadership.

## Work Experience

### Technical Architect & Senior Linux Engineer

Oct 2025 - Present

OceanaGold Corporation | Australia

Acted in a consultative and technical capacity to provide subject matter expertise for enterprise infrastructure, Linux environments, and core ERP systems.

- **Senior Linux Engineering (RHEL):** Provided strategic guidance, deep technical expertise, and hands-on system administration for Red Hat Enterprise Linux (RHEL) environments hosting the core ERP platform (Pronto ERP & IBM Informix databases).
- **Azure Cloud Advisory:** Evaluated complex enterprise cloud architectures and workloads, delivering technical migration roadmaps and suggesting optimised cloud-native integration patterns.
- **Infrastructure Auditing:** Executed thorough structural audits of core server environments, identifying critical software bottlenecks, documenting technical debt, and mapping remediation metrics.
- **PKI & Security Consultations:** Provided specialised advice on Public Key Infrastructure (PKI) frameworks, specifying root certificate authority rules, identity access structures, and enterprise data security protocols.
- **Technical Training:** Provided recommendations, resources, and guidance on training programs regarding Windows Server internals, Active Directory core logic, and basic network infrastructure.

Technologies: RHEL, Pronto ERP, Informix, Azure, PKI Systems, Infrastructure Auditing, Windows Server, Active Directory

### Head of IT Architecture & Solution Design

Oct 2018 - Jun 2025

Bega Group | Australia

Progressed through multiple leadership and architecture roles at Bega Group, managing large-scale system designs, budget operations, and technical teams.

#### Head of IT Architecture (Jan 2024 – Jun 2025)

- Led the Enterprise, Solution, and Technical Architecture Teams to align business strategy with technical execution.
- Produced the Operational Technology (OT) Reference Architecture and Modernisation Roadmap for current and future manufacturing sites.
- Elicited and motivated site OT Teams and the Group Lead to implement a combined OT/IT support model.

#### Solutions Architect (Sep 2022 – Jan 2024)

- Designed and implemented scalable public cloud (AWS) architectures, creating standardized Infrastructure as Code (IaC) templates.
- Designed, developed, and deployed the Workday Bulk File Integration platform for Human Resources using a Laravel & Node.js containerized stack.

- Created standard Solution Architecture templates to capture current, transition, and future states.

#### **Cloud Operations Manager** (*Feb 2022 – Sep 2022*)

- Managed a team of six Senior Systems and Cloud Engineers, overseeing Cloud Operations budgets.
- Achieved \$1.0M in initial compute cost-optimisation in AWS.
- Introduced new cloud deployment models using IaC and established COST reporting/resource reviews.

#### **Lead Solution Architect (Consignment)** (*Oct 2020 – Feb 2022*)

- Served as the lead Solution Architect for this 2-year program, delivering solution design and architectural alignment during major consignment integrations and infrastructure consolidations.

#### **Senior Systems Engineer** (*Oct 2018 – Oct 2020*)

- Provided Level 3/4 infrastructure support, integration support, and systems administration.
- Successfully implemented Firewall-as-a-Service (FWaaS) to support mass work-from-home capacity.
- Co-developed custom Identity and Access Management (IAM) systems integrated with ConnX.
- Upgraded Pronto XI 750 (ERP) and migrated Infor M3 infrastructure from VPN to AWS Direct Connect.

*Technologies: IT Architecture, Cloud Operations, AWS, IaC, Laravel, Node.js, Pronto XI, VMware*

#### **Information Technology Manager & Infrastructure Architect**

**Nov 2009 - Oct 2018**

*Peanut Company of Australia (A Bega Company) | Kingaroy, Queensland, Australia*

*Served as the primary technical contact leading PCA's systems management and technical integration during its acquisition by Bega.*

#### **Systems Engineer (PCA Acquisition)** (*Jan 2018 – Oct 2018*)

- Led the site technical transition, onboarding site systems to Bega MPLS and greater infrastructure networks.

#### **Information Technology Manager** (*Jan 2014 – Jan 2018*)

- Managed IT/OT site operations, network administration, IT governance, security, and a 2-person support team.
- Directed the upgrade of Pronto XI 670 to Pronto XI 730 ERP.
- Completed a zero-assistance upgrade of Labware LIMS v5 to v6.
- Migrated mail servers from Exchange 2003 to Exchange 2013, and eventually to open-source iRedMail to optimize budget.
- Hardened edge security via VyOS and completed major fiber infrastructure upgrades.

#### **Infrastructure Architect** (*Jun 2011 – Jan 2014*)

- Designed and deployed network architectures, including an OSPF ring network for high availability (HA) manufacturing.
- Developed integration bridges between Pronto XI ERP and Labware LIMS.
- Built custom database applications to support laboratory flow and operations data visibility.

#### **Service Desk Officer** (*Nov 2009 – Jun 2011*)

- Provided Level 1–3 site, user, network, and application support.
- Developed and maintained the company website.

*Technologies: IT Management, Infrastructure Design, OSPF Networking, Labware LIMS, VyOS, iRedMail*

#### **Managing Director & Technical Lead**

**Jun 2006 - Nov 2024**

*WEBCENTRIC / CLEARPATH INFORMATION SYSTEMS | Kingaroy, Queensland, Australia*

*Directed the design and end-to-end engineering of custom information systems, localized network layouts, and custom database integrations for regional business entities.*

- Designed, built, and supported a bespoke Manufacturing Business Management System (BMS / ERP).
- Managed technical support tiers, client consulting engagements, and full-stack application/web development for 17 years.

*Technologies: C, C++, Delphi, Pascal, SQL, Network Architecture, Custom Databases, ERP Development*

## Service Desk Analyst / Systems Administrator

Jun 2008 - Jun 2009

Sun Super Pty Ltd | Australia

Provided Level 1/2 service support, mobile application development, and systems administration.

- Designed, built, and deployed an internal IT Asset Management System.
- Developed mobile applications targeting Windows CE platforms.
- Established strong rapport across business groups and IT teams.

Technologies: Windows CE, Systems Administration, Asset Management, EUC Support

## Computer Technician & IT Consultant

Jun 2000 - Jun 2006

AP Computers | Australia

Served as IT Consultant and Technician, providing technical sales, custom computer builds, EUC support, and server administration.

- Administered local Windows and Linux servers for business clients.
- Designed and deployed websites and custom software solutions.
- Engaged directly with customers for sales, custom builds, and phone/remote support.

Technologies: EUC Support, Windows Server, Linux System Administration, Custom Builds, Web Development

## Computer, Network & Printer Technician (Self-Employed)

1998 - Jun 2006

Independent IT Consultant | Australia

Established a sole-proprietorship to provide comprehensive technical services to residential and local business clients, laying the foundation for future consulting ventures.

- Assembled, configured, and repaired custom desktop computers and servers.
- Designed, routed, and certified small-to-medium business local area networks (LANs).
- Maintained and serviced commercial printer hardware and print server queues.

Technologies: Hardware Assembly, LAN Routing, Printer Servicing, Customer Support

## Education & Credentials

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### Diploma of Counselling in Counselling

In Progress

Australian Institute of Professional Counsellors | Australia

Focusing on active communication, psychological support, and empathy frameworks to lead modern high-performing teams.

### Diploma of Mental Health Counselling/Counsellor in Mental Health Counselling

2022

Health and Harmony Colleges | Australia

Learnt foundational counselling processes, therapy frameworks, and active empathetic support practices.

### Diploma of Software Development in Software Development

2018

Computer Power Institute | Australia

Specialised in object-oriented programming, data structures, and native software engineering architectures.

### Diploma of Information Technology Management in IT Management

2017

Alison | Online

Coursework covering IT security, database management systems, and technology infrastructure management.

### Diploma of Web Development in Web Development

2016

Evocca College | Australia

Focused on relational database scripting, front-end UX, and dynamic web application integration.

## Certifications & Coursework

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- Cisco Certified Network Associate (CCNA) - Network Academy Training (2013)

- Windows Server 2016: DNS - Microsoft Infrastructure Pathway (2016)
- Windows Server 2012: Installation and Configuration Validation - Lynda (2012)
- Enterprise Architecture Foundations - LinkedIn Academic Certifications (2020)
- Understanding Systems Analysis - Alison Academic Frameworks (2013)
- Basic Study Skills - Alison (16 Dec 2013)
- Fundamentals of General Science - Alison (28 Apr 2014)
- Protect Your PC against the NotPetya Cyber Attack - Alison (3 Jul 2017)
- Master Windows PowerShell - Alison (11 Jan 2022)
- Microservices Architecture for Absolute Beginners - Alison (22 Sep 2022)
- How to become a Cloud Architect - Alison (5 Jan 2025)

## Skills & Expertise

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### **Counselling & Professional:**

Empathetic Communication, Active Listening & Collaboration, Stakeholder Engagement, Mentorship & Team Leadership

### **Engineering Specialisations:**

Application Modernisation, Enterprise & Solution Architecture, Systems Analysis & Integration, OT (Operational Technology), PKI & Trust Security, IT Governance & Cost Optimisation, CI/CD & App Store Release

### **Languages & Frameworks:**

C & C++, Delphi & Pascal, SQL & Relational Databases, C# / .NET, PowerShell & Bash Scripting, PHP & Laravel, Dart & Flutter, NodeJS & JavaScript

### **Systems & Infrastructure:**

Active Directory & Windows Server, Enterprise Network Engineering, Cloud Architecture (AWS & Azure), Linux Systems Administration, Network & Edge Security, Bare-Metal & Emulation, Infrastructure as Code (IaC)