


Steve Goodwin

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With an extensive background in software development, solution architecture, system design, implementation, deployment, and installation, as well as programming, project management, and business analysis, I have established a strong reputation for knowledge-sharing and effectively addressing complex and demanding projects in novel domains.

My proven ability to identify client requirements and collaborate closely to devise solutions has consistently led to enhanced business outcomes and capabilities. I am adept at delivering cost-effective solutions employing state-of-the-art technology, ensuring a balance between high levels of productivity and meticulous attention to detail. I am highly motivated, embodying a robust work ethic, determination, and persistence necessary to fulfil client specifications without compromising on quality.

Furthermore, I exhibit exceptional management and leadership qualities, enabling me to draw out the best in teams. My strong communication skills facilitate seamless interaction between technical and non-technical stakeholders, fostering a collaborative environment.

Throughout my diverse career, I have held positions such as Chief Technology Officer, Project / Team Leader, Solution Architect, Application Architect, Senior Software Developer, Business Analyst, and Technology Director. I have successfully delivered software solutions across a range of domains, including Content Management, E-Commerce, Customer Relationship Management, Engineering, Hardware Integration, Internet of Things, Accounting & Financial, and Artificial Intelligence.

Experience

2003 - 2023

Chief Technology Officer | Enterprise Architect | Solution Architect | Application Architect | Senior Developer / Software Development Pty Ltd

Managed the end-to-end technology implementation process, including strategic planning, resource allocation, and budget management, to ensure the seamless integration of innovative software solutions across various business domains. Led the design and development of cutting-edge, custom software applications by fostering a collaborative environment among cross-functional teams, including software engineers, UX/UI designers, and product managers.

Implemented agile methodologies to drive continuous improvement, streamline development processes, and adapt to rapidly changing client needs. Successfully delivered bespoke business productivity solutions tailored to the unique requirements of a wide array of clients, ranging from small businesses to large commercial enterprises. These solutions led to significant enhancements in client performance and capabilities, resulting in increased operational efficiency, cost savings, and overall client satisfaction.

2017 - 2023 - contract

Solution Architect | Application Architect | Senior Developer / Team Management Systems

Developed and executed comprehensive technology strategies and visions, encompassing solution architecture and software development processes. Expertly designed and implemented Robust Cloud Based Solutions, ensuring seamless integration and alignment with business objectives and stakeholder requirements.

2021 - 2022 - contract

Enterprise Architect | Solution Architect / Queensland Police - RSCO

Conducted thorough evaluations of existing systems and development processes, formulating data-driven recommendations for strategic improvements. Led comprehensive solution development reviews, ensuring optimal technical architecture and design proposals that aligned with organisational goals and stakeholder expectations.

1994 - 2003

Systems Engineer | Senior Developer | IT Consultant | Network Engineer | IT Manager / Software Support Pty Ltd

Provided a wide array of software support and computer services customised to meet the unique requirements of diverse clientele, including home users, small and medium-sized businesses. Employed a client-centric approach to deliver exceptional IT solutions that optimised system performance, enhanced productivity, and streamlined operations.

Demonstrated expertise in managing large-scale system installations, comprising up to 100 workstations, encompassing server installations, Thin Clients, and Personal Computers. Effectively coordinated with cross-functional teams to ensure seamless deployments, timely completion, and minimised disruptions to clients' daily operations.

Specialised in delivering tailor-made software development, web design, and web development solutions that catered to clients' specific business needs and objectives. Leveraged industry-leading technologies, such as HTML, CSS, JavaScript, and popular content management systems like WordPress and Bespoke solutions to create visually appealing and highly functional websites that increased online presence and user engagement.

Offered comprehensive intranet, internet, and IT consulting services, leveraging deep industry knowledge and technical expertise to identify and address clients' pain points, recommend innovative solutions, and facilitate informed decision-making. This holistic approach significantly enhanced overall client satisfaction, streamlined business processes, and improved operational efficiency.

1993 - 1994

Systems Engineer / Total Office Systems

Provided computerised office solutions for small to medium sized businesses.

1991 - 1993

Software Developer / Dollar Curtains

Developed inventory control and point of sale systems.

Management Skills

Technology Leader

- Developed and executed technology strategy, resulting in the implementation of new software and systems that improved the company's bottom line.
- Developed short-term and long-term roadmaps for technology and software development vision.
- Managed a team of developers, ensuring that projects were delivered on-time and within budget.
- Fostered a culture of innovation, encouraging the team to experiment with new technologies and approaches to problem-solving.
- Built strong relationships with vendors and partners, resulting in successful partnerships that helped the company stay competitive in the market.
- Developed WorkOS / BusinessOS systems

Enterprise Architecture

- Designed and implemented an enterprise architecture framework, resulting in improved alignment between technology and business goals.
- Worked closely with business leaders to identify and prioritise technology initiatives that supported the company's strategic objectives.
- Collaborated with other architects to develop and implement a roadmap for technology modernisation, resulting in increased agility and reduced complexity.
- Developed and maintained a technology standards and governance framework, ensuring that technology investments were aligned with business needs and architectural principles.
- Worked on IS27001 certification projects
- Developed Disaster Recovery Plans
- Developed Business Continuity Plans

Solution Architecture

- Designed and implemented solutions that met business requirements, resulting in increased efficiency and reduced costs.
- Worked closely with business stakeholders to understand their needs and provide recommendations for technology solutions.

Application Architecture

- Maintained knowledge of industry trends and emerging technologies, making recommendations for the adoption of new technologies and approaches to application development.
- Ensured coding standard patterns were used where appropriate for long term code maintenance and readability.
- Implemented the use of Artificial Intelligence and Machine Learning into processes and systems.

Business Analyst

- Developed use cases, epics, features, user stories, and other documentation to support software development.
- Conducted user acceptance testing and provided recommendations for improvements to software applications.
- Conducted business process analysis and provided recommendations for process improvements, resulting in increased efficiency and reduced costs.

- Created process flows using BPMN diagrams
- Worked closely with business stakeholders to understand their needs and translate them into functional requirements.

Project Manager

- Managed software development projects, ensuring that they were delivered on-time and within budget.
- Collaborated with business stakeholders to define project scope, objectives, and deliverables.
- Developed project plans, schedules, and budgets, and monitored progress against those plans.
- Managed project risks and issues and provided regular status updates to stakeholders.

Development Specialities

Microsoft Azure Full Stack

- Developed and deployed cloud-based applications using Microsoft Azure, resulting in increased scalability, availability, and reliability.
- Implemented security and compliance measures, ensuring that applications met regulatory requirements and company standards.
- Developed microservices and APIs integrated into cloud-based application infrastructure.
- Monitored and optimised cloud-based solutions, using Application Insights.

Microsoft .Net, ASP, .Net Core

- Developed and maintained software applications using Microsoft .Net, ASP, and .Net Core, resulting in increased efficiency and productivity.
- Upgraded, migrated .NET frameworks as required to later versions as the technology progressed.

Microsoft Entity Framework

- Developed object relational mapping models, POCO entities, using Microsoft Entity Framework utilising concepts such as unit of work, CQRS, and repositories.
- Used entity framework migrations and scripting for handling of database versioning and updating.

Windows Forms, WPF, UWP

- Developed and maintained software applications using Windows Forms, WPF, and UWP, resulting in enhanced user experiences for related platforms.

Coding Skills

Agile Development

- Led agile development teams in the successful delivery of software projects, resulting in increased customer satisfaction and improved team performance.
- Facilitated daily stand-up meetings, sprint planning, sprint reviews, and retrospective meetings, promoting team collaboration and continuous improvement.
- Implemented agile methodologies, such as Scrum and Kanban, resulting in increased transparency, predictability, and efficiency in software development.

C#

- Developed and maintained software applications using C#, resulting in rapid application development, while maintaining high performance and clean code standards.
- Maintained knowledge of industry trends and emerging technologies related to C#, making recommendations, and implementing adoption of new technologies and approaches.

Typescript / JavaScript

- Developed and maintained client-side browser frameworks using TypeScript resulting in improved user experience and increased productivity in a type safe coding environment.
- Developed cutting edge native Web Components using TypeScript for optimal development of front-end user interfaces.

HTML / CSS

- Used HTML and CSS effectively, often in collaboration with web designers to create visually appealing front end frameworks while meeting accessibility standards.

Unit Testing

- Developed and executed unit tests using MSTest, ensuring that software applications met quality standards.
- Collaborated with other developers to ensure that unit tests were consistent with architectural principles and standards.
- Integrated unit testing into the software development process, resulting in increased efficiency and productivity.

Database Skills

Microsoft SQL Server

- Developed and maintained databases using Microsoft SQL Server, resulting in increased efficiency and productivity.
- Designed and optimised database structures and queries, ensuring that data access was efficient and effective using advanced SQL functionality such as CTE's.
- Indexed databases effectively to ensure optimal performance under load.
- Implemented server-side stored procedures using Transact SQL where solutions required server-side functionality for optimal processing of data.
- Created data warehousing methodologies for reporting requirements that required the use of big data, or complex data patterns.

Data Migration

- Designed and executed data migration plans, ensuring that data was migrated efficiently and effectively.
- Developed customised data migration tools where required.

Experienced With

GIT Source Control, Continuous Deployment, Continuous Integration, Containerisation, Rest Services, PWA development, API Development, Web Components, Microsoft Open XML, SSRS Reporting, Azure DevOps, Azure Event Grid, Azure Functions, Azure Logic Apps, Azure Storage, Azure SQL, Azure Web Apps, SendGrid, Microsoft Power BI

Recent Projects

Queensland Police

As a Solution Architect, I conducted a thorough review of existing systems and development processes. Following this evaluation, I authored and developed comprehensive recommendations for future development pathways, ensuring alignment with the organisation's goals and objectives. My expertise in solution development review, technical architecture, and solution design proposal facilitated the creation of an effective and sustainable plan for choices around system enhancement and optimisation.

TMS.Global

I successfully designed, developed, and implemented TMS.Global to allow the creation of a comprehensive psychometric assessment profiles which have been instrumental in assisting numerous professionals, team leaders, managers, business owners, and human resource specialists in harnessing human potential to cultivate high-performing individuals and teams. This full-stack, cloud-based solution is hosted on Microsoft Azure, offering a seamless and robust user experience.

Propelo

I successfully developed Propelo, an innovative cloud-based messaging system designed to facilitate positive behavioural changes in individuals. This ground-breaking solution was developed for The University of Queensland, School of Population Health and commercialised by UniQuest, the commercial arm of the University.

Building on the success of previous products in this line, including Mobile Mums and CPRC Text Coaching, Propelo leverages cutting-edge cloud-based technology to provide trainers with a highly effective platform for promoting positive behavioural change. This intuitive system features an advanced messaging infrastructure that is fully customisable and adaptable to a range of different use cases.

Propelo represents a significant milestone in the effective utilisation of technology to enhance health outcomes and promote positive behavioural change. By empowering trainers and healthcare professionals with powerful tools and resources, this innovative cloud-based solution has the potential to revolutionise the way we approach healthcare and wellness, transforming the lives of individuals and communities worldwide.

Magman Solutions

I successfully developed a suite of innovative software applications tailored to address the unique needs of the mining industry. These cutting-edge solutions were designed to streamline site processes and significantly reduce the time required for critical tasks. One notable application focused on optimising Explosives Magazine Stock Control, ensuring efficient and accurate inventory management for this critical component of mining operations.

Another application I developed targeted shift management, providing operational supervisors with powerful tools to effectively monitor and manage their teams. By utilising these software solutions, supervisors were able to quickly identify bottlenecks, adjust resources as needed, and optimise shift performance in real-time. As a result, mining operations experienced improved productivity and enhanced safety, while minimising operational disruptions and downtime. These software applications have demonstrated a tangible impact on the mining industry, revolutionising site processes and driving operational excellence.

TunnelTrap

I successfully developed and implemented Tunnel Trap, a highly innovative software system designed to streamline the planning and construction of mine sites and tunnels. This powerful solution has been widely adopted and utilised in numerous high-profile projects, including the Brisbane, Queensland Airport Tunnel, Inner City Bypass, and many others.

By leveraging cutting-edge technology and best practices in software development, I was able to create a highly effective solution that is both practical and functional. The Tunnel Trap system provides organisations with a powerful tool for managing the planning and construction of mines and tunnels, enabling them to streamline processes, optimise resource allocation, and drive real improvements in productivity and efficiency.

The widespread adoption of the Tunnel Trap system is a testament to its quality and effectiveness. By providing organisations with a powerful tool for managing their tunnelling projects, this solution has the potential to transform the way we approach mine and tunnel construction, driving real improvements in organisational performance and productivity.

The Tunnel Trap system represents a significant achievement in the development of innovative software solutions for mine and tunnel construction. By providing organisations with a powerful tool for managing their projects, this solution has the potential to drive real improvements in workforce capabilities and enhance the quality of life for communities worldwide.

DataTrap Pro

Heilig and Partners engaged me to create a suite of georeferencing-based solutions for real-time monitoring of explosion and vibration data on construction sites. The project encompassed the development of both a web interface and a Windows-based desktop application. I further designed supplementary software to facilitate calculations related to explosive weights and alternative construction methodologies. The system generates output files in KML, DXF, and DWG formats.

These innovative solutions have been employed in the construction of prominent projects such as the Clem 7 Tunnel and the Airport Link Tunnel, among others. Following the successful implementation of DataTrap Pro for desktop, Heilig and Partners have commissioned the development of DataTrap Pro Cloud, a cloud-based solution to enhance and expand upon the capabilities of the original DataTrap system.

Aeropower

Over a 15-year collaboration with Aeropower Pty Ltd, I played an instrumental role in developing a variety of software solutions. These included helicopter safety systems utilising laser technology to ascertain clearance distances, as well as vegetation scanning software designed to calculate and plot conductor clearances. Additionally, I contributed to the development of a comprehensive data collection and asset management solution that facilitates the gathering of photos and inspection data in the field using cameras, tablets, and GPS referencing.

This data is seamlessly managed within a bespoke Asset Management System, which enables efficient reporting, integration, and manipulation of the collected information. A cloud-based solution delivers this data to end-users via web browsers, ensuring accessibility and ease of use. Notably, the solution has been adopted by organisations both in Australia and internationally, including Powerlink Queensland, Western Power, Transend, and Tas Networks.

BeUpstanding

I developed the solution architecture and wrote the software for the BeUpstanding 2 system which involved designing a sophisticated, low-code/no-code platform that empowers users to create custom content, modules, reports, and additional functionalities. The system leverages cutting-edge web browser technology, incorporating native web components, dynamic CSS, HTML, and JavaScript delivery. This approach enables clients to update or modify the CSS, HTML, and select JavaScript functionalities without necessitating software development expertise.

Hosted on Microsoft Azure, the cloud-based system capitalises on a comprehensive array of Azure services, including Azure Functions, Queues, SQL, App Services, and Logic Apps, to provide a seamless and robust user experience.

Testimonials

“Steve has developed 3 software packages for our business over the past 6 years. The service and advice from Steve and the Software Development team has been exceptional. Steve has a real focus on understanding our business requirements and providing a practical software solutions to deliver on our outcomes. Our business would not be where it is today without the commitment and assistance from Steve”

- ◆ Rodney Bedgood - Magman Mining Software

“Steve Goodwin is an excellent software developer; he has become a vital part of Aeropower's business, his ability to keep abreast of the latest software developments as proven valuable to Aeropower and our customers.”

- ◆ David Salmon – Aeropower Pty Ltd

“Steve is a great guy and a highly experienced & skilled software developer. He delivers the highest quality product & service at a reasonable cost and most importantly he gets the project from the drawing board to a commercial reality very quickly. As a satisfied client I can highly recommend his services.”

- ◆ Jared Mann – Trading Software Pty Ltd

“For my 3rd software development project there was no precedent to follow so I needed a software programmer who thought differently from all the ones I had worked with both in Australia and overseas. So I started searching and found Steve Goodwin, and haven't looked back since. From a technical perspective Steve's ability to think laterally, see solutions and challenge my ideas has resulted in a result far better than I originally envisaged. Through this process Steve has enhanced my ability to do what I do even better. From a commercial perspective, it's not only Steve's understanding of deadlines and costs but it's his commitment to take ownership of them that turned an idea into reality.”

- ◆ Phil de Stoop – Atame Pty Ltd

“I have worked with Steve Goodwin for several years now as part of my research at The University of Queensland. Steve always goes above and beyond on every project - working with us to derive programming and technical solutions to achieve our research needs. Steve is responsive, agile, and highly professional. I could not recommend him or his company highly enough.”

- ◆ Genevieve Healy – The University of Queensland

“Steve and his team are exceptional software developers. Steve is able to listen to my concepts and translate them into functional software with efficiency. I am also extremely grateful for the maintenance support Steve offers me, as he is always willing to go above and beyond to help.”

- ◆ Brianna Fjeldsoe – Enable Health Care

“I have utilised Steve's software development services for a number of years. Steve has consistently produced software that has met our specifications and has a strong customer focus.”

- ◆ Shane Brann – MCS (Qld) Pty Ltd