

Susan von Wielligh

Senior .NET & Full-Stack Engineer · Technical Lead · Cloud & Microservices

Pretoria, Gauteng, South Africa • susan@svwdesign.com • svwdesign.com •
linkedin.com/in/susan-von-wielligh-b5596014 • github.com/susanvw

PROFESSIONAL SUMMARY

Senior .NET Full-Stack Engineer with 20+ years of experience delivering enterprise, cloud-native and mission-critical software. Deep expertise in C#, .NET, ASP.NET Core, SQL Server, JavaScript/TypeScript and REST APIs, with strong recent experience in Node.js, React, React Native, MongoDB, AWS and Azure. Experienced across hands-on engineering, technical leadership, microservices, Domain-Driven Design, multi-tenant systems, third-party integrations, CI/CD and production troubleshooting. Career highlights include a GIS replay solution used to reconstruct vehicle movements around the Marikana incident, real-time SAPS operational dashboards, financial-services microservices and modern travel/loyalty platforms.

TECHNICAL EXPERTISE

Languages & Backend	C#, .NET / .NET Core, ASP.NET Core, ASP.NET MVC, Node.js, Express, JavaScript, TypeScript, REST APIs
Frontend & Mobile	React, React Native, Angular, Ionic, Cordova, ExtJS, HTML5, CSS3, Vite
Cloud	AWS Lambda, API Gateway, Amplify, EC2, S3, CloudFront, SQS, EventBridge, Secrets Manager, IAM, ECR, RDS; Azure
Data	MongoDB, AWS DocumentDB, SQL Server, MySQL, EF Core, SSIS, SSRS, SSAS, ADOMD.NET, spatial data
Architecture	Microservices, serverless, DDD, SOLID, vertical slice architecture, multi-tenancy, Adapter Pattern, OpenAPI
DevOps & Quality	Docker, GitHub Actions, Azure DevOps, LocalStack, CI/CD, Zod, Vitest, Cypress, TDD, Agile/Scrum

PROFESSIONAL EXPERIENCE

Software Developer · TypeDev

Feb 2025 – Present — Pretoria, Gauteng, South Africa

- Build and evolve the OdyNN travel and loyalty platform using React, Node.js APIs and MongoDB.
- Design and implement cloud-native services and microservices across .NET and Node.js ecosystems.
- Deploy and manage AWS solutions including Amplify, EC2, RDS, S3 and Secrets Manager, with broader serverless experience across Lambda, API Gateway, CloudFront, SQS and EventBridge.
- Apply SOLID principles and Domain-Driven Design across service boundaries and shared platform components.
- Use Zod for runtime validation and type safety in Node.js APIs.
- Contribute to multi-tenant architecture, authentication/authorisation, API integrations, deployment automation and complex production troubleshooting.

Application Developer · SvwDesign (Pty) Ltd

Aug 2020 – Feb 2025 — South Africa

- Delivered contract solutions for Bidvest Bank using .NET Core, microservices and OpenAPI specifications.
- Designed and built a mobile stock-tracking application with Ionic, backed by MySQL data exposed through microservices.
- Developed an AWS-hosted reporting dashboard using Amplify, Cognito and .NET Core Web API.
- Applied the Adapter Pattern to integrate legacy systems with modern microservice architectures.
- Implemented Entity Framework Core with Code-First migrations for SQL Server and MySQL.

Senior Developer · Salvage Management & Disposals (Pty) Ltd (SMD)

Jan 2017 – Aug 2020 — Gauteng, South Africa

- Led redesign of operational systems using ASP.NET MVC, C#, HTML5 and JavaScript.
- Led development of client solutions across .NET and OutSystems platforms.
- Led integration with Sage financial systems using C# and SQL Server.
- Mentored and led a team of three developers through pair programming and code reviews.
- Represented the engineering team in client meetings; delivered within Agile sprints.

Senior Developer · Inivit Systems

Aug 2015 – Dec 2016 — Gauteng, South Africa

- Redesigned the Supplier Portal using Angular and ASP.NET.
- Applied Domain-Driven Design concepts and Web API implementation practices.
- Worked directly with customers to communicate progress and address concerns; team recognised as Department of the Year in 2016.

IT Business Analyst · South African Police Service (SAPS)

Apr 2014 – Jul 2015 — Gauteng, South Africa

- Scoped and documented the mobile component of the docket system.
- Developed a mobile proof of concept for first responders at crime scenes using Ionic and Cordova.
- Contributed to development of the Blueprint project for 10111.

Software Solutions Consultant · FlowCentric Technologies Pty (Ltd)

Jan 2014 – Mar 2014 — Gauteng, South Africa

- Implemented FlowCentric workflow solutions at SAB Africa using C# and Microsoft SQL Server.
- Installed, integrated and deployed FlowCentric software in client environments.

Software Developer · Ctrack SA Ltd

Dec 2009 – Dec 2013 — Pretoria, Gauteng, South Africa

- Provided onsite technical support for SAPS using Ctrack Fleet Management integrated with 10111 for real-time vehicle dispatch.
- Designed an automated reporting solution with SSIS, SQL Server and SSRS delivering daily operational reports to SAPS officers.
- Built an ASP.NET application to visualise SSRS reports, provincial polygons and vehicle boundary alerts.
- Developed a live GIS replay solution using C# and SQL Server spatial types to reconstruct Marikana incident vehicle movements on Google Maps.
- Created a Gauteng War Room dashboard proof of concept using ADOMD.NET, SSAS cubes and ExtJS.
- Built a mobile evidence-collection proof of concept using Apache Cordova.

Software Engineer · Intenda (Pty) Ltd

Aug 2008 – Nov 2009 — Gauteng, South Africa

- Developed web applications using ASP.NET and C#; integrated ExtJS for rich interactive interfaces.
- Built reporting solutions with Crystal Reports embedded in ASP.NET applications.

Analyst Programmer · GijimaAst

Jan 2008 – Jul 2008 — Richards Bay, KwaZulu-Natal, South Africa

- Developed web applications using ASP.NET and C#, with Crystal Reports solutions integrated in.

Analyst Programmer · ELCB Information Services

Apr 2006 – Dec 2007 — East London, Eastern Cape, South Africa

- Developed a web-based ticketing system and other applications using ASP.NET and C#.
- Troubleshoot and resolved system and application malfunctions.

Junior Software Engineer · Real People

Dec 2004 – Mar 2006 — East London, Eastern Cape, South Africa

- Developed web-based loan application modules using ASP.NET and C# on .NET Framework 1.1/2.0.

- Implemented ID-number and client-data validation logic for loan-processing workflows.
- Built foundational full-stack experience with C#, HTML and JavaScript.

EDUCATION

Bachelor of Technology (BTech), IT Development Software — Nelson Mandela Metropolitan University · 2004

Diploma, Information Technology Software Development — Nelson Mandela Metropolitan University · 2001–2003

Matric — High School Grens · 1996–2000

CERTIFICATIONS

Microsoft Certified: Azure Fundamentals

Exam 480: Programming in HTML5 with JavaScript and CSS3

ASP.NET Core: Test-Driven Development

LANGUAGES & RECOGNITION

Afrikaans — Native or bilingual • English — Native or bilingual

Recognition: Mensa