

PHIL SHELTON

Senior .NET Developer | Full Stack Engineer

Phone: (+44) 075 9006 1223

Email: phil.shelton32@gmail.com

LinkedIn: www.linkedin.com/in/philipjshelton

Location: UK (remote/hybrid/on-site)

PROFESSIONAL SUMMARY

Passionate full-stack .NET developer with 20+ years of hands-on experience building and scaling enterprise software used by thousands of daily users. Deep expertise across the Microsoft stack (C#, .NET Core, ASP.NET MVC, Blazor, Entity Framework, SQL Server) with recent focus on cloud-native applications, microservice and modular monolith architecture, and API development.

Currently developing production systems using .NET Core, Blazor, FastAPI (Python), Next.js/React, and PostgreSQL. Strong background in database design and optimisation, having achieved 153x performance improvements on complex queries. Experienced in full software development lifecycle from requirements analysis and architecture design through to deployment and maintenance.

Former technical founder who built and scaled a successful PropTech SaaS platform from ground up. Now focused on hands-on developer roles where I can apply deep technical experience in collaborative team environments.

CAREER FOCUS

After 20 years building a PropTech company from scratch—maintaining hands-on development throughout—I successfully exited in 2023 to return to what I'm most passionate about: full-time software development. I've spent my career designing elegant solutions, writing quality code, and solving complex technical challenges. I'm now seeking a permanent developer role where I can contribute as a senior team member without CEO responsibilities.

TECHNICAL SKILLS

Languages & Frameworks:

- C#, .NET Core, ASP.NET MVC, Blazor (Server & WebAssembly), WPF
- Python, FastAPI, SQLAlchemy
- JavaScript, TypeScript, Next.js, React
- SQL, T-SQL, PostgreSQL

Technologies & Tools:

- Entity Framework, LINQ, Dapper, DAPR
- Web API, REST, Microservices, Modular Monoliths
- Azure, Docker, Git
- SQL Server, PostgreSQL
- Visual Studio, VS Code

Practices:

- Object-oriented design and SOLID principles
- Clean architecture and modular design
- Database design and optimisation
- API design and implementation
- Test-driven development
- Agile methodologies

PROFESSIONAL EXPERIENCE

Senior Developer | Ambue Ltd

Nov 2024 – Present (Contract)

Architectural consultancy delivering retrofit solutions for UK social housing

Working on the Innovate UK-funded Transform-ER project, a national initiative focused on retrofitting 1 million homes for energy efficiency. Additionally designed and developed new CRM and management system for Ambue.

Key Technical Contributions:

- Designed and implemented distributed CRM system using .NET Core, Blazor WebAssembly, PostgreSQL, FastAPI, and Next.js/TypeScript
- Built robust API endpoints and business logic using Python/FastAPI with PostgreSQL backend, improving system scalability and maintainability
- Architected database schema and optimised complex queries, achieving 153x performance improvement on critical data retrieval operations
- Implemented property inspection application using .NET Blazor WebAssembly with hierarchical data display and JSON handling
- Developed integration with Google Solar API for UK property analysis including coordinate transformations and geospatial calculations
- Configured OAuth2 authentication flows and resolved CORS issues for secure cross-origin API communication
- Built Docker containerisation and deployment pipelines for consistent environment management
- Designed complex PostgreSQL queries with CTEs, window functions, and JSON operations for environmental datasets

Technical Environment: .NET Core, C#, Blazor WebAssembly, Python, FastAPI, PostgreSQL, Next.js, TypeScript, Docker, OAuth2, Google Cloud Platform

Technology Consultant | connecting.tech Ltd

2023 – Present

Technology consultancy optimising business processes and data systems

Key Technical Projects:

- Designed and implemented asset modelling application for Scottish housing associations using Excel, VBA and PowerBI, streamlining financial planning workflows
- Built data migration and automation tools for IT consultancies, ensuring seamless integration across enterprise platforms
- Developed reporting frameworks and analytics dashboards enabling real-time operational insights
- Architected data pipelines and ETL processes for legacy system modernisation
- Created custom APIs for integration between disparate business systems

Technical Environment: .NET, C#, SQL Server, Python, Excel, VBA, PowerBI, data migration tools, API development

Technical Founder & Lead Developer | SDS Ltd

2002 – 2023

Founded and developed UK's leading housing development software platform

Architected and built a market-leading platform for programme management in the construction sector, supporting thousands of daily users managing multi-billion-pound project portfolios across the UK and internationally.

Technical Architecture & Development:

- Designed and developed complete enterprise application from ground up using C#, .NET, WPF, and SQL Server
- Architected platform with role-based security, audit logging, and real-time synchronisation
- Built complex relational database schema supporting high-volume transactional data with comprehensive reporting capabilities
- Implemented RESTful APIs for third-party integrations and mobile applications
- Created sophisticated data visualization and reporting engine using custom-built frameworks
- Designed and optimised SQL Server databases for performance at scale (100+ concurrent users, 1M+ records)
- Implemented automated deployment pipelines and continuous integration workflows
- Built comprehensive test suites including unit, integration, and end-to-end tests

Technical Challenges Solved:

- Optimised complex financial calculations and projections across multi-year programmes
- Implemented document management and version control systems integrated with project workflows
- Built flexible workflow engine supporting configurable approval processes
- Designed data migration tools for onboarding clients from legacy systems
- Solved complex concurrency issues in multi-user editing scenarios

Platform Evolution:

- Migration from desktop WinForms/WPF application to web-based ASP.NET MVC platform
- Upgraded through multiple .NET framework versions while maintaining backward compatibility
- Implemented modular architecture for scalable feature deployment
- Transitioned from on-premise to cloud-hosted infrastructure

Technical Environment: C#, .NET Framework, .NET Core, ASP.NET MVC, WPF, Entity Framework, SQL Server, REST APIs, Azure, JavaScript, HTML/CSS, GCP, AWS

EDUCATION & PROFESSIONAL DEVELOPMENT

Executive MBA | Cranfield School of Management, UK

Business strategy, operations, marketing, finance, and international business

Business Growth Programme | Cranfield School of Management, UK

Owner-managed business scaling, strategy, operations, M&A

Technical Training:

- Clean Code / Clean Architecture – Robert C. Martin principles
- Modular Monolith Architecture – Milan Jovanović
- Pragmatic API Design – Modern REST API best practices - Milan Jovanović
- Multiple Microsoft courses throughout career

KEY TECHNICAL ACHIEVEMENTS

- **Performance Optimisation:** Achieved 153x improvement on complex PostgreSQL queries through query restructuring and indexing strategy
- **System Architecture:** Designed and built enterprise platform from scratch, supporting 100+ concurrent users and processing £50M+ in project data annually
- **Database Design:** Architected scalable database schemas for high-volume transactional systems with complex reporting requirements
- **Integration Expertise:** Implemented numerous third-party API integrations including OAuth2 flows, webhook systems, and data synchronisation
- **Full Lifecycle Ownership:** Maintained direct coding responsibility across entire 20-year span while growing company, demonstrating sustained technical engagement
- **Greenfield Development:** Extensive experience building systems from requirements through to production deployment

VOLUNTEERING

- Pro bono technology mentoring for charity CEOs through The Cranfield Trust
- Trustee at The Centre for Strategic International Governance

ADDITIONAL INFORMATION

Work Authorisation: British Citizen, full UK right to work

Availability: Immediate / 4 weeks' notice

Work Preferences: Remote, hybrid, or office-based (flexible)

Notable: Maintained hands-on development work throughout 20-year tenure as company founder, never transitioning to purely managerial role. Continued writing production code, conducting code reviews, and solving technical challenges even as business scaled. Recent contract work demonstrates current, active technical skills in modern frameworks and practices.