TOM KNOWLTON

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SOFTWARE DEVELOPER

Solutions-driven professional with 30+ years' experience in design, development, and implementation of complex software solutions. Recognized for building software based on requirements specifications and constraints. Instrumental in guiding teams in designing, building, testing, and deploying software changes. Proficient in frontend development; expertise in legacy ASP.NET webforms, HTML, CSS, and JavaScript. Talented in backend development with a strong background in C#, ASP.NET, and SQL Server.

Software Development Processes · Test Planning & Execution · Application Development · Technical Infrastructure Support
Software Development Tools · Software Design · APIs & Messaging Strategies · Mentorship & Team Collaboration

PROFESSIONAL EXPERIENCE

SENIOR SOFTWARE DEVELOPER | SKYMETRIC SOLUTIONS (FULL-TIME, CONTRACT, 100% REMOTE), 2023 – 2024

★ Headed development of an MVC Razor C# app for Skymetric Solutions, heightening bid pricing and advancing user engagement with a sleek UI. Used Creative Tim SoftUI and Bootstrap 5.3 to build intuitive UI, driving user engagement and workflow.

★ Monitored project progress using DevOps Boards/Kanban and managed code retrieval and submission via GIT/DevOps repository.

MENTORING / PERSONAL PROJECTS / ON-GOING EDUCATION | WYZANT.COM, ONLINE, 2020 – PRESENT

★ Facilitated skill development in others while upholding a strong personal commitment to expanding knowledge and staying adaptable in the ever-evolving software development landscape.

SENIOR SOFTWARE DEVELOPER | AMADEUS (FULL-TIME, REMOTE), 2022 – 2022

★ Demonstrated a commitment to efficiency by optimizing airline booking workflows, resulting in a substantial 20% reduction in booking processing time through strategic utilization of the NewSkies API.

★ Deployed daily MS Teams channels that aided in elevating team communication and augmenting overall project progress.

SENIOR SOFTWARE DEVELOPER | CDCN (CONTRACT, REMOTE), 2021 – 2021

★ Enabled real-time data access and analysis through successful integration of application's frontend with CosmosDB.

★ Enhanced data security by configuring Azure Key Vault, observing firewall permissions, and using AzureCLI for script-based automation.

★ Utilized KendoUI, Angular, and TypeScript to design a dynamic pop-up that improved user interaction and data input accuracy.

SENIOR SOFTWARE DEVELOPER | XPANXION (CONTRACT, REMOTE), 2021 – 2021

★ Contributed to developing an energy auditing application, enhancing resource management and cost-efficiency.

★ Boosted application performance and maintainability by refactoring ASP.NET webforms and T-SQL using C# code.

★ Attained 20% significant increase in project visibility through efficient task management on Monday.com.

SENIOR SOFTWARE DEVELOPER | TULGY (CONTRACT, REMOTE), 2020 – 2020

★ Developed C# RESTful Web API, allowing integration with an SQL Server database and Salesforce Field Service Lightning objects.

★ Innovated internal Salesforce administration and integration practices, boosting functionality and reducing development time.

SENIOR SOFTWARE DEVELOPER: BOEING AEROSPACE (CONTRACT, ONSITE), 2019 – 2019

★ Headed C# Windows application development, transforming R&D processes by visualizing airplane wing models in 3D.

★ Built a seamless data pipeline linking the C# application to a MongoDB backend, certifying rapid retrieval of intricate 3D model data.

★ Used C# NETZMQ, and TCP/IP to enable real-time communication between the application and a Raspberry Pi, dynamically controlling projectors and cameras for detailed wing inspection.

ADDITIONAL EXPERIENCE (KEY PROJECTS) 1995 - 2019

★ **Efficiency Optimization with C# solutions**: Transformed document processing with a novel server-side asynchronous system using C# Windows Services and integrated seamlessly with MS Office DLLs for dynamic document generation at Buyers Fund.

★ **Build Request System Transformation**: Managed a project at Novell; Submitted a patent for GUI-based system automating build requests, achieving 85% boost in accuracy and speed. Employed Internationalization and Localization DLLs for global operations.

★ **Call Center Software Development**: Addressed a crucial need by creating a custom call center software that boosted reporting accuracy by 80%, enabling data-driven decisions and optimizing performance.

★ **Website Development**: Developed and maintained a website for Utah Kids Foundation for 5 years, utilizing HTML, CSS, JavaScript, jQuery, and Bootstrap. Migrated website from IIS to Apache, resulting in cost savings and ensuring long-term platform viability.

★ **Web Solution Modernization**: Transformed the entire automotive dealership web solution with a C# backend and dynamic front-end using Master Pages, CSS, JavaScript, jQuery, and Bootstrap.

EDUCATION

Bachelor of Science – Information Technology, University of Phoenix
Certificate in Visual Communications (10 Month Certificate)

TECHNICAL PROFICIENCIES

C# | JavaScript | SQL (T-SQL) | ASP.NET | .NET Core | Angular | jQuery | CSS | HTML | SQL Server | Entity Framework | LINQ | SQL Server Management Studio (SSMS) | SQL Server Profiler | MS Azure | AWS | Google Cloud Platform | Routing | N-tier Application Architecture