

Cameron Maxwell
Principal Architect | Senior .NET Solutions Engineer
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PROFESSIONAL SUMMARY

Senior Software Engineer and Architect with over a decade of experience designing scalable .NET applications, cloud-based microservices, and enterprise web systems. Recent focus on GenAI solutions, including RAG pipelines, MCP server integration, and LLM-driven applications built on Azure and the Claude API. Skilled at transforming complex business needs into timely, high-impact software solutions and leading projects from architecture through delivery.

SKILLS

Languages

- | | | |
|---------------------|---------------|--------|
| • C# 14 (all prior) | • PowerShell7 | • XML |
| • Python | • LINQ | • JSON |
| • VB.NET | | • YAML |

.NET Frameworks

- | | | |
|----------------------------|--------------------|----------------------------|
| • .NET Core 10 (all prior) | • ASP.NET Core | • Ocelot API Gateway (lib) |
| • .NET API | • ASP.NET Core MVC | • MediatR (lib) |
| • .NET Framework | • Blazor | |

Web Development UX/UI

- | | | |
|-------------------------|---------------|-------------------------|
| • WCF | • Bootstrap 5 | • Responsive |
| • JavaScript/TypeScript | • CSS 3 | • React/Node.js/Next.js |
| • AJAX | • jQuery | • Telerik/Infragistics |

DevOps/Cloud Computing

- | | | |
|---------------------|------------------|--------------------------|
| • Azure | • GitHub Actions | • Dapr (AZ cloud native) |
| • AWS | • CI/CD | |
| • Git/GitHub/GitLab | • Microservices | |

Database

- | | | |
|-----------------------|--------------|------------------|
| • SQL Server | • Dapper | • MongoDB |
| • Procedures/Triggers | • Oracle | • DynamoDB (AWS) |
| • SSIS/SSRS | • DB2 | • Cosmos (AZ) |
| • Entity Framework | • PostgreSQL | |

Miscellaneous

- | | |
|------------------------|----------------|
| • Data Modeling | • Apache Kafka |
| • Design Patterns | • RabbitMQ |
| • Dependency Inversion | • SignalR |
- .NET End-to-End Windows Software Solutions including Web/Desktop/Services/Console/PowerShell
 - Cloud based microservice architecture include Azure/AWS/Kafka Confluent
 - Claude Code, OpenAI Codex, Google Colab and Kaggle for ML/API integration and collaboration

WORK HISTORY

Principal Architect

Ethical Finite Machines | San Jose, California | 02/2026 - 05/2026 (Contract)

Responsibilities:

- Architected end-to-end Claude AI text responses (GENAI) proprietary system
- Implemented cloud based dynamic SPA/PWA front-end application
- Implemented Azure event driven UI utilizing Functions, Service Bus and SignalR service
- Maintained front-end portal for an AI interactive prompt and response UI
- Engineered backed processing using C# with Claude API endpoints
- Prototyped an MCP server solution integrating with a custom data store
- Implemented RAG via retrieval model / language model using an embedded model w/ vector database
- Included current Anthropic's LLMs for testing (Opus, Sonnet, and Haiku) at time of testing

Senior Software Engineer

First Citizens Bank | Charlotte, NC | 12/2014 – 02/2026

Responsibilities:

- Engineered scalable enterprise level software solutions
- Replaced Legacy systems reducing footprint by 43%
- Transitioned legacy business applications to the latest .NET technologies
- Implemented internal invoice management web application using React/Blazor front-end technologies
- Reduced technical debt within legacy system emphasizing clean code and modular reusability
- Triaged with stakeholders in creating short and long term software roadmaps
- Enhanced and maintained client facing web application within ASP.NET Core
- Designed and deployed API services (microservices architecture) to facilitate loose coupling among application and data interfaces using ASP.NET Core Web API within corporate data centers
- Analyzed database structures enhancing throughput by 32%
- Refactored database triggers and optimized relational database for performance enhancement
- Integrated Oracle, DB2 and MS SQL database support for all desktop internal applications
- Utilized Azure DevOps, CI/CD pipeline for deployment and release management
- Implemented custom PowerShell dashboard for easy AD Group administration
- Worked closely with both SDLC and Change Management teams ensuring industry best practices
- Enabled applications posture in preparation for policy and audit compliance
- Identified and remediated risk and compliance vulnerabilities in both the software and technology level
- Managed software release artifacts in DEV, UAT and PROD across 16 servers
- Embraced Agile release methodology
- Led and mentored teams for both onshore and offshore resource pools
- Emphasized security and unit testing early on in the design phase
- Leveraged Atlassian suite for project management, issue tracking (Jira/Confluence)
- Incorporated AI for code analysis and desktop automation (MS copilot/Visual Studio/Visual Code)
- Automated routine employee administration task via UIPath Desktop Automation

Senior Software Engineer

Responsibilities:

- Architected customized data collection application in ASP.NET/MVC per client requirements
- Solved and Architected new Bank Exchange project with latest current MS technologies
- Enabled back-office reporting achieving a 25% efficiency increase
- Created and parsed the newest ICL / X9 industry standard banking exchange formats
- Created custom backend integration with VPN resilience for remote management access
- Implemented JavaScript technologies for client web UI and data binding
- Implemented multiple job automations and streamlined internal business processes
- Converted legacy code into the latest Microsoft .NET ecosystem
- Extended core DocAgent application to use AJAX, jQuery, and newest technologies to enhance the user experience. Incorporated 3rd party controls such as Infragistics and Telerik
- Built and maintained .NET Services providing data decryption, proprietary SQL Server indexing, specialized data parsing and customized executive dashboards
- Optimized database schemas, index tuning, reviewed execution plans, target set based stored procedures
- Implemented T-SQL database encryption/decryption
- Created SSIS packages for import/export of data with data transformation as needed.
- Designed SSRS reports both on the reporting server and embedded standalone ASP.NET applications
- Lead and mentor junior developers
- Organized and led team meetings ensuring milestones and project deadlines were being met

EDUCATION

- Bachelor of Science | Major: Computer Science | Longwood University

CERTIFICATIONS

- Certified ScrumMaster

STRENGTHS

- Architecture
Articulate and design distributed, scalable solutions utilizing an event based design pattern, microservice architecture, and .NET API integration
- Solution Oriented
Articulate and design scalable solutions through efficient requirements gathering and system analysis
Collaborate closely with key stakeholders and business operations for efficient system support and triage

PORTFOLIO

- [Web Applications Samples](#)
- [GitHub](#)