

Joshua Mykitta

Secure Software Engineer and Brazilian Jiu-Jitsu Black Belt

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Summary

Software Engineer & Security Specialist with over 20 years of professional and military leadership experience, including 6 years building secure .NET applications. I build enterprise-scale web applications with 'secure by design' principles.

Experience

Acentra Health

Software Engineer

Remote
September 2022 - Current

- Builds and optimizes **C#/.NET API libraries** for syncing government data across enterprise systems.
- Architects and refactors enterprise authentication modules using **SSO / OAuth2**, reducing attack surface and meeting modern identity standards.
- Integrates AI coding agents (GitHub Copilot, Claude) into the SDLC — spec-driven planning and human-gated AI code review on every pull request — accelerating delivery without relaxing secure-coding standards.
- **Architected a multi-threaded batch pipeline** to transmit an initial 1.5M+ and ~15k daily medical records to an external government API with undocumented rate limits, slashing estimated processing time by 97% (from one year to under two weeks) while maintaining a 100% upload success rate.
- Built a React dashboard for uploading and scanning third-party software artifacts, integrating real-time scan progress via Server-Sent Events (SSE) and a configurable API layer to communicate with a FastAPI backend.
- Designed a React frontend to visualize risk scores and vulnerability findings from automated SBOM/NVD scans, giving users a clear, actionable view of software supply-chain risk before deployment into a controlled environment.

Amentum

Software Engineer

Remote
November 2021 - August 2022

- Modernized legacy codebases to .NET Core, implementing secure architectural patterns and reducing technical security debt.
- Architected and delivered a **C#/.NET Core + SQL Server dashboard app** for ground support teams, integrated with enterprise web suite.
- Remediated critical vulnerabilities with strict input validation and sanitization, neutralizing XSS and SQL Injection vectors.

Autry Greer & Sons, Inc

Software Engineer

Mobile, AL
August 2021 - November 2021

- Established secure development workflows by introducing version control standards and **secure coding guidelines** for the engineering team.
- Designed and built custom security automation tools to audit system access and revoke unauthorized privileges, strengthening IAM governance.

Earlier Roles (Hexagon, Lift Data Services, DynCorp Int'l)

Various Positions

Various Locations
December 2005 - August 2021

Previous roles included: Jr. Cybersecurity Analyst, Jr. Software Engineer, Backshop Manager over 4 teams of 20+ team members

Education

University of Arizona

Cyber Operations - Engineering

Bachelor of Applied Science • 3.753 GPA (Magna Cum Laude)
May 2026

Also earned Undergraduate Certificate in Cyber Operations (NSA CAE-CO)

Projects

Portfolio Platform

July 2026 - Ongoing

- Designed, built, and self-hosts a production Blazor (.NET 10) + PostgreSQL portfolio/blog platform — OAuth-only auth, hidden role-gated admin area, spam-hardened contact form, and cookieless privacy-preserving first-party analytics.
- Ships through an AI-assisted SDLC: agentic coding sessions gated by automated AI code review on every PR, Conventional Commits feeding automated releases (release-please, GHCR images).

Hybrid Home Lab & Security Sandbox

December 2022 - Ongoing

- Deploys and maintains hybrid-OS infrastructure (Docker, WSL2 GPU passthrough, Gluetun WireGuard VPN namespaces) hosting live production deployments — portfolio, SaaS test stacks — behind Nginx reverse-proxy SSL ingress.
- Integrates an isolated FlareVM sandbox for malware analysis and security research.

Skills

</>Languages & Frameworks

C#, .NET, Entity Framework, LINQ, Blazor, JavaScript, TypeScript, Angular, HTML/CSS, Tailwind, Python

🔒 Secure Development

OWASP, SSO/OAuth2, Veracode, Burp Suite, OWASP ZAP, SonarQube, Azure B2C/Entra, SAST, Security Hardening

☸ DevOps & Data

Azure DevOps, CI/CD, Pipelines, Docker, Git/GitHub, SQL Server, PostgreSQL, Query Optimization, PowerShell, Bash

🧠 AI-Assisted Engineering

Claude Code, GitHub Copilot (agents & PR review), Agentic Workflows, Spec-Driven Development, AI Code-Review Gates