

Taylor Kelley

Backend Software Developer

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ABOUT

I'm a Backend Software Engineer with expertise in a wide range of frameworks. From C# with ASP.Net to TypeScript with NestJS with both GraphQL and REST architectures, to knowledge docker, networking, and CI/CD pipelines. I've spent the past few years delving deep into security first development, creating projects like an Identity provider, alongside a XSS-safe rich text editor for Blazor. Coupled this knowledge, I have 5 years of professional experience working with government agencies to maintain systems, migrate legacy code-bases to modern .Net Core frameworks, re-designing the UI of internal tools, and working within large databases and multi-language environments.

PROFESSIONAL EXPERIENCE

STATE OF ALABAMA | MONTGOMERY, AL | 2021-PRESENT

SOFTWARE DEVELOPER II (Local Government Health Insurance Board) - Feb 2026 to Present

- Led research and planning for a custom digital signature system to help increase online registrations by 200%
- Delivered production-ready code within the first 30 days of hire
- Conducted a thorough review of current authentication systems and developed a bullet proof plan to create HIPAA compliant authentication flows, increasing trust among the user's

SOFTWARE DEVELOPER (State Law Enforcement) - Jun 2023 to Feb 2026

- Modernized 8+ legacy applications by migrating from ASP.NET Web Forms and Windows Forms to Blazor Server-Side Rendered web app and the latest .NET Core versions, reducing maintenance overhead and improving the UI
- Upgraded an internal platform for law enforcement personnel, reducing the average page load times by around 1.5x
- Secured and updated a cross-server database sync system to replicate tables between internal and external data servers, increasing security and improving data redundancy between systems.

PROJECTS

AUTHENTICATION/IDENTITY SERVER (NEXTJS/EXPRESSJS/TYPESCRIPT)

<https://github.com/TayLabs/Auth>

- A self-hostable authentication microservice built from scratch. Implemented JWT session management, TOTP 2FA with AES-256-GCM encrypted secrets, and a cross-service RBAC system
- Used TypeScript with Zod for runtime input validation and compile time type-safety, catching invalid requests before being processed

MARKDOWN BASED BLOG (NEXTJS/TYPESCRIPT)

<https://github.com/TaylorGKelley/personal-site>

- Built a GitHub-backed static blog using Next.js ISR, fetching and parsing Markdown posts directly from a GitHub repo at revalidation time, removing the need for a database or traditional CMS
- Implemented a custom server-side Markdown rendering pipeline with React Server Components, including code syntax highlighting, Image caching/optimization, and auto-generated heading anchors with URL-safe IDs

TECHNICAL SKILLS

Languages: C#, TypeScript/JavaScript, HTML/CSS, SQL

Frameworks: React, .Net API with EF Core, NextJS, Node with Express JS

Infrastructure/DevOps: Docker, Postgres, Redis, Proxmox, GitHub Actions, OPNSense, HAProxy

Tools: Zed, Figma, Postman, Jira, Whisper Flow, Claude AI

EDUCATION

WESTERN GOVERNORS UNIVERSITY | M.S. in Cyber Security and Information Assurance
Salt Lake City, Utah | 2022

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Salt Lake City, Utah | 2021