

# Kyle Mitchell

Columbus, GA | (706) 289-8357 | KyleMitchell4444@gmail.com | linkedin.com/in/kyle-mitchell | kylehmitchell.com | github.com/Kylemitchell64

## FULL-STACK SOFTWARE ENGINEER

Full-stack engineer with a Computer Science background, returning to software after a 2021 injury cut my degree short. Picked the work back up in October 2025 and went from first line of code to a production application — containerized, CI/CD-deployed, and secured against real attacks — in under six months, without a bootcamp or classroom. Comfortable across the stack: React and TypeScript on the front end, ASP.NET Core 8 and C# on the back, PostgreSQL for data, Docker and Kubernetes for delivery. I work through problems by reading logs, not guessing, and I learn new tools by shipping with them.

## TECHNICAL SKILLS

<b>Languages &amp; Frameworks:</b>	TypeScript   JavaScript   C#   SQL   HTML   CSS   React 19   ASP.NET Core (.NET 8)   Node.js   Entity Framework Core
<b>Identity &amp; Security:</b>	ASP.NET Core Identity   JWT Authentication   OAuth 2.0 (Google, GitHub)   Rate Limiting   Input Validation & Sanitization   CORS   Microsoft Entra ID   HTTPS / TLS
<b>Infrastructure &amp; DevOps:</b>	Docker   Docker Compose   Kubernetes (AKS)   Terraform   Azure DevOps Pipelines   GitHub Actions   NGINX   WSL2
<b>Cloud &amp; Data:</b>	Microsoft Azure   Azure Static Web Apps   Azure DNS   Vercel   Render   Neon   PostgreSQL   SQL Server
<b>Testing &amp; Quality:</b>	Cypress   End-to-End Testing   REST API Testing   Health & Readiness Probes   Structured Logging
<b>Practices &amp; Tools:</b>	Git   GitHub   Agile   Root-cause Debugging   Technical Documentation   Production Diagnostics

## EXPERIENCE

### Full-Stack Software Engineer

October 2025 – Present

*Self-directed development under senior engineer mentorship — direction and technical accountability provided; 100% of implementation, debugging, and production problem-solving done solo.*

*React 19, TypeScript, ASP.NET Core (.NET 8), C#, PostgreSQL, Docker, Kubernetes (AKS), Terraform, Azure DevOps, NGINX, Cypress, Entra ID, JWT, OAuth 2.0.*

- Shipped a full-stack task management application — React 19 front end, ASP.NET Core REST API, PostgreSQL database — containerized with Docker and deployed to production on Azure Kubernetes Service in under six months from first line of code.
- Built the complete Azure DevOps CI/CD pipeline from scratch: automated build, test, and deploy stages, NGINX reverse proxy in front of the API, and Kubernetes liveness/readiness probes to keep rollouts safe.
- Responded to a live XSS injection and API flood attack on the production application — diagnosed the exploit vector, patched the exposed surface in real time, then used the incident to drive a complete security overhaul: .NET 7→8 upgrade, ASP.NET Core Identity with JWT authentication, OAuth 2.0 (Google and GitHub), rate limiting, input validation, and user-scoped data isolation. Took the API from zero authentication and open endpoints to fully gated, validated, and ownership-scoped.
- Led a full infrastructure migration off AKS to Vercel (frontend) and Render (backend + Postgres), diagnosing and fixing a CORS origin mismatch, a Docker service hostname resolution bug, and a Windows-built node\_modules conflict — all from reading logs and tracing requests across layers.
- Provisioned production DNS and a custom domain (kylehmitchell.com) using Terraform — Azure DNS zones, Static Web App binding, and Porkbun nameserver integration — all as reproducible infrastructure as code.

## SELECTED PROJECTS

### My Learning Tracker — Full-stack productivity app

2025 – Present

*React 19 | TypeScript | ASP.NET Core (.NET 8) | PostgreSQL | Docker | Kubernetes | Azure DevOps | Cypress*

- Architected a monorepo structure with Vercel rewrites routing API calls to the Render-hosted backend, replacing a previous NGINX reverse-proxy container setup for simpler, cheaper hosting.
- Migrated from an expired Render PostgreSQL instance to Neon serverless Postgres, reconfiguring connection strings across all environments without downtime.
- Implemented a full auth layer — ASP.NET Core Identity with JWT, Google and GitHub OAuth, user-scoped task ownership, rate limiting, and input validation with data annotations and Kestrel body-size caps.
- Wrote Cypress end-to-end tests gating every deploy, covering full CRUD flows and authentication paths across the React front end and ASP.NET Core API.

### Personal Portfolio — kylehmitchell.com

2025

*React 19 | ASP.NET Core | Terraform | Azure DNS | Vercel | Render*

- Production-grade portfolio built as a working full-stack demo, not a template. Custom domain registered through Porkbun, DNS provisioned via Terraform, CI/CD through Azure DevOps.

## CERTIFICATIONS

### Microsoft Azure Fundamentals (AZ-900) — Microsoft

Passed April 16, 2026

## EDUCATION

### Columbus State University — Columbus, GA

2018 – 2021

Computer Science, Software Systems Track — coursework completed through junior year; interrupted by a 2021 injury. Returned to the field in 2025, shipping production full-stack systems.