

COLIN SMITH

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SUMMARY

Software Engineer with 6+ years of experience specializing in **Agentic Fullstack Development and Deployment Architecture**. Expert in **C#/.NET Core, Go, SQL Server, iOS, Flutter, React**. Proven track record of architecting modern web and mobile experiences. Now unlocking the potential of **Agentic Code Generation** to offload tasks to capable agents responsibly, and safely.

TECHNICAL SKILLS

- **Languages:** C#, SQL (T-SQL), Swift, TypeScript, Go.
- **Frameworks:** ASP.NET Core, SwiftUI, React & ReactNative, Firebase, Flutter .
- **Data & Infrastructure:** Stored Procedures, DTO Design, RESTful APIs, Azure DevOps, Git.
- **Architecture:** Clean Architecture, MVVM, SOLID Principles, Swift Concurrency.
- **Agentic Coding** Claude Code, Cursor, MCP, Docker

PROFESSIONAL EXPERIENCE

Full-Stack AI Solutions Engineer (Personal Project) | 2026

Developed and deployed 'Tucker', a customized, autonomous AI agent hosted on a Raspberry Pi 5 deployed safely in a Docker Container to automate code delivery for projects.

- **Infrastructure & DevOps:** Architected a containerized environment using **Docker and Docker Compose**, implementing a **Network-Filter "Gatekeeper"** to enforce a zero-trust architecture by whitelisting only essential external domains (OpenAI, Google Cloud, Telegram).
- **AI Asset Pipeline:** Engineered a multi-stage automated pipeline that utilizes **OpenAI's DALL-E 3** to generate diagrams and images based on natural language prompts.
- **Cloud Integration:** Developed custom **Python** tooling to handle the automated upload and public hosting of assets on **Firebase Storage**, managing service account credentials and PEM key serialization for secure cloud handshakes.
- **Autonomous Workflows:** Configured the agent to independently modify **Go (Golang)** seed files and push updates to **GitHub** by injecting Personal Access Tokens (PAT) into the Git remote environment via containerized environment variables.
- **Prompt Engineering & Instruction Design:** Authored a comprehensive `instructions.md` "Soul" file, defining the agent's identity, technical constraints, and operational workflows to ensure consistent, autonomous execution of complex tasks.

Victra | Software Engineer | Feb 2024 – Dec 2025

- **Architected and deployed** scalable C#/.NET backend services, utilizing **Azure DevOps** to automate CI/CD yaml pipelines and reduce deployment time significantly.
- **Developed complex SQL Stored Procedures** and optimized T-SQL queries to handle concurrent business logic, improving database performance.
- **Implemented Clean Architecture** to decouple the database layer from the mobile frontend, reducing network payload, vulnerability surface area, and enhancing mobile app performance.

StableKernel | Software Engineer | 2022 – 2024

- Lead developer for native iOS applications, utilizing **Swift**. Used Codable to manage HTTP Data Contracts with backend
- Collaborated with cross-functional teams to implement **MVVM architecture**, ensuring code maintainability and testability.

Various Projects (Comcast, GEICO, Dick's Sporting Goods) | iOS Developer | 2019 – 2022

- Developed native iOS UI components and business logic using **Swift**, contributing to high-traffic consumer applications.

TECHNICAL PROJECTS

LudicrousApps | *Agentic Software Development at Ludicrous Speed*

- React Frontend deployed on Cloudflare pages.
- Tucker (AI Agent Project): Deployed and built fully autonomous AI Agent for code delivery.

Pathway-Edu | *React, ReactNative, TypeScript, Go, MongoDB*

- Developed a full-stack educational platform with a **Go** backend and **React** frontend, deployed via **Vercel** and **Azure DevOps**. <https://pathway-edu.vercel.app>

Rummage | *Flutter, Go, Firebase, MongoDB*

- Built a cross-platform social media application designed to advertise and conduct local garage/estate sales. Available both on App Store and Google Play.

EDUCATION North Carolina State University | BS in Mechanical Engineering 2012