Solomon Huckstep

Software Engineer (C# / .NET)

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SUMMARY

C# / .NET developer building full-stack web applications, REST APIs, and SQL-backed systems. At Hachette Book Group I built the tools that ran daily label printing and pick release operations, and wrote SQL reports and stored procedures in Sybase ASE and PowerBuilder. Uses AI tools as a reviewer and assistant rather than a code generator, and verifies every suggestion before it ships.

SKILLS

Languages & Data: C#, SQL, PowerShell, PowerBuilder, SQL Server, Sybase ASE

Web & APIs: .NET, ASP.NET Core, Blazor, SignalR, RESTful APIs, EF Core

Cloud & DevOps: Azure SQL, Docker, GitHub Actions (CI/CD), Git, Linux, Windows

Services & Tools: Worker Services, BackgroundService / IHostedService, ErrorOr, AI-assisted development (Claude)

Printing: IPP, PCL, BarTender, TCP

EXPERIENCE

IT Computer Operator (Label Print Operations & Software Development)

Oct 2022 - Jul 2026

Hachette Book Group | Lebanon, IN

- Built ReleaseProcessor, a C# app that replaced a failure-prone PowerShell script for splitting warehouse label orders across five BarTender instances. Cut failures from roughly five a month to zero. Auto-queued new order files so none were missed, tracked every file to completion with retries and clean rollback, and posted a run summary to Teams as a shared log.
- Built PrintFlow, a menu-driven PowerShell terminal app used daily by three operators across three shifts. Put queuing, monitoring, reprinting, auditing, and lookups into one central menu, replacing scattered manual steps with a single standard workflow and reducing manual input errors.
- Built a prototype label generator that renders PCL and sends it straight to printers over raw TCP, going from 3 to 5 seconds per label to about 1,500 labels per second.
- Wrote SQL reports and modified production stored procedures in Sybase ASE and PowerBuilder.
- Provided production support for daily print operations: maintained and repaired four industrial label printers, diagnosed failures in real time during live production runs, and developed a troubleshooting process from recurring failure patterns. Became a go-to resource on BarTender operations and label file structure.

PROJECTS

PrintSpooler | github.com/huckste/PrintSpooler

Jul 2026 - Present

- Built a printer-agnostic print spooler: RESTful API plus Blazor Server dashboard that queues jobs, delivers them to network printers over IPP, pushes live status via SignalR, and logs a full audit trail of every job.
- Designed per-printer monitors running as .NET worker services (BackgroundService / IHostedService), managed by a printer manager, each with its own cancellation token so one stalled printer never blocks the others; printers are discovered over mDNS and picked up at runtime.
- Built crash recovery: on restart, unfinished jobs are re-checked against the printer and marked failed if completion can't be confirmed.
- Layered architecture (Core, Infrastructure, Api, Web) backed by SQL Server in Docker (originally deployed on Azure SQL), with a CI pipeline on GitHub Actions. Tested against a physical network printer.

Mnemo | Personal project, in progress

2026 - Present

- Designing a model-agnostic memory layer for LLMs: small, typed, tagged, linked notes that any model can query through a tool call, so retrieval runs on structured database queries instead of vector search. RAG is used only for background link discovery.
- Designed an LLM-as-grader gate that scores new notes on focus, verbosity, tag fit, and whether they should be split, then feeds failed checks back to the writing model to revise.

EDUCATION

Full Stack Web Development Certificate, Butler University Executive Education Aug 2022 - Feb 2023

Music Technology coursework, IUPUI Aug 2018 - Jan 2020