

CURTIS FOSTER

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SUMMARY

Computer Programming student at Sinclair Community College who builds complete, tested software in Java, C++ and TypeScript. Shipped a JavaFX + SQLite data explorer that finds table relationships automatically and lets people with no SQL experience query and chart large datasets. Lead Architect for Team 404 at ASA DataFest 2026. Nine years supporting people in human services: works independently, stays calm under pressure and hands off clearly to teammates. Authorized to work in the US for any employer.

TECHNICAL SKILLS

Languages: Java, C++, Python, SQL, TypeScript, C#

Frameworks & Tools: JavaFX, SQLite / JDBC, JUnit, React, Vite, pandas, matplotlib, seaborn, Maven, Git & GitHub, Visual Studio, VS Code, jpackage / jlink, Claude Code

Concepts: Data structures & algorithms, recursion, object-oriented design, memory management in C++, multithreading, relational database design, unit testing, secure password storage (Argon2id), role-based access control

IT & Support: Desktop repair, networking troubleshooting, Active Directory, Microsoft System Center, customer service

Currently learning: ASP.NET Core, planned for a backend on my own server (not yet part of a completed project)

PROJECTS

Data Explorer | Java 21, JavaFX, SQLite, JUnit, Claude Code (AI-assisted) github.com/curtispfoster/DataExplorer-releases

- Built a Windows app that loads CSV, TSV and JSON into one SQLite dataset that teammates query and chart without SQL.
- Wrote a streaming importer with column type detection and a two-thread parse and write pipeline that imports an 8-million-row, 1.3 GB CSV in about 3.5 minutes.
- Designed a relationship finder that infers foreign keys from names and values, rates each link's confidence and draws a diagram.
- Secured accounts with Argon2id password hashing and User / Admin / Owner roles; wrote 182 JUnit tests and shipped it as a Windows app through GitHub Releases (source private, available on request).

Console File Cleaner | C++20, Claude Code (AI-assisted) Private repository, source available on request

- Cleans the 1.47 GB ASA DataFest 2026 CSV (7,675,802 lines), keeping 683,106 rows with byte-identical output in every version.
- My original was single-threaded. I rewrote and reviewed it with Claude Code, measuring each change: a reader thread, parallel worker threads and an in-order writer take a full run from 447.5 s (original, Debug build) to 2.2 s in 18–32 MB of memory.

Team 404, ASA DataFest 2026 | Lead Architect | Python, C++ github.com/curtispfoster/404

- Led the technical design of a five-person team's analysis; set up the repository, dev environments, roles and practice schedule.
- Wrote the original single-threaded C++ cleaner for a 1.47 GB file too large for Excel or Access, and Python scripts (pandas, matplotlib, seaborn) for a Top-20 diagnosis-groups chart and value counts across 8 patient columns.

Portfolio Site | React 19, TypeScript, Vite, Claude Code (AI-assisted) curtispfoster.com

- Every page is prerendered to static HTML: works without JavaScript, no runtime dependencies, strict CSP, hosted on Cloudflare.

Data Structures & Coursework | C++, Java github.com/curtispfoster/Programming-Concepts

- Birthday Database: a template binary search tree with add, modify, remove, search, monthly lookups and file save/load.
- Six sorting algorithms with a timing program; linked lists, stacks, queues and a bag as C++ templates; a BST same-values check.
- Java exercises including a Luhn credit card check and JavaFX tax and investment calculators (public on GitHub).

WORK EXPERIENCE

Direct Support Professional | Choices in Community Living, Dayton, OH September 2017 – Present

- Support adults with developmental disabilities, administering medications and maintaining a clean, safe home.
- Work independently on solo shifts and hand off clearly to relieving staff.
- De-escalate conflict by listening and using calming techniques, keeping clients and staff safe.

Oil Change Technician | National Pit Stop, Springfield, OH February 2013 – October 2017

- Performed routine vehicle maintenance, including oil and coolant changes.

EDUCATION & CERTIFICATIONS

Associate of Applied Science, Computer Programming — In Progress Sinclair Community College, Dayton, OH

Certifications: IT Fundamentals | Fast Track Programming