

Eli Frigo

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SUMMARY

Software engineer with 13+ years of programming experience — 4 of them professional — building full-stack applications, real-time systems, and AI-powered tooling in an industrial automation environment where software quality directly impacts production. Leads a development team, owns architecture decisions, and ships software used in large-scale manufacturing and warehouse operations.

EXPERIENCE

Software / Controls Engineer II

May 2022 – Present

Infinity Machine & Engineering · De Pere, WI · Tissue packaging automation

- Building an AI-powered control center for paper packaging production lines — collects real-time tag data from Rockwell PLCs, stores time-series production metrics, renders a live mill view dashboard, enables remote HMI access, and hosts an on-premises AI chatbot powered by a locally-deployed LLM that answers operator questions using live and historical plant data.
- Architected and built a custom real-time HMI framework using React and TypeScript — with a proprietary backend that reads and writes Beckhoff PLC variables over the ADS protocol and pushes live values to the DOM; recognized across the engineering organization as the highest-quality HMI in production.
- Lead a team of 3 engineers building a warehouse management system (WMS) with a React, TypeScript, Vite, and Shadcn/UI frontend — designed to coordinate real-time task dispatch and position tracking for AGV fleets of 36+ vehicles.
- Own sprint planning, architecture, and code review for the WMS; manage a distributed development workflow using Jira, Bitbucket, and Confluence.
- Present software capabilities and system functionality to enterprise customers during technical demonstrations and acceptance reviews.

PROJECTS

ming *Python · PyPI · 4 ★*

- Async network scanner supporting ICMP, TCP, and UDP across CIDR ranges, wildcards, and hostname lists; runs up to 500 concurrent TCP probes without root. Features a live terminal UI, reverse DNS, and JSON/CSV export.

dehydrat *Rust · 4 ★*

- Static analysis tool that inspects Minecraft JAR files for session credential theft — detects Minecraft API calls commonly exploited by malicious mods.

blanket *C*

- Compiler for a custom programming language, implemented from scratch — hand-written lexer, recursive-descent parser, and code generation.

canvas-cli *Python*

- Terminal-first CLI for Canvas LMS using the Planner API — token-based auth, due-date highlighting, per-assignment ignore lists, XDG-compliant config.

EDUCATION

Bachelor of Science, Computer Science

May 2026

St. Norbert College · De Pere, WI

SKILLS

Languages TypeScript, Python, Rust, JavaScript, C, C++, Java, SQL, Bash

Frontend & Backend React, Vite, Svelte, Shadcn/UI, Node.js, REST APIs, WebSockets

AI & Data On-prem LLM deployment, time-series data systems, industrial data integration

Tools Git, GitHub, Docker, Linux, Jira, Bitbucket, Confluence, ADS Protocol (Beckhoff), OPC-UA