
Austin Tyler Conn

user@austinconn:~\$ resume --role general

Cyber Software Engineer · Reverse Engineer / Vulnerability Researcher · Embedded Engineer · Software Engineer

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Active TS/SCI clearance.

▣ Tailored view – General Software

SUMMARY

Software engineer with 5+ years at Northrop Grumman designing and implementing production software features — including an object-oriented SDR payload emulator — across defense programs, plus a decade of broader experience spanning application development, database administration, and test automation. Delivered 28 internal projects and administered 8 Microsoft SQL databases at Cincinnati Precision Instruments, and builds/maintains a large portfolio of Python libraries and tools (most-starred: Pynab, a YNAB API client). Strong across Python and C/C++/C#, with added depth in reverse engineering, embedded systems, and secure software. MS in Computer Science (2025).

WORK HISTORY

Northrop Grumman Corporation – Cincinnati, Ohio

Program names and mission specifics omitted; descriptions generalized to releasable technology and skills only.

Cyber Software Engineer 02/2023 – Present

- Designed and implemented a software emulator for a software-defined radio (SDR) payload, implementing TCP/UDP and serial communication protocols using object-oriented design (inheritance and polymorphism).
- Delivered design and implementation of new product features; contributed to 25+ major customer deliveries across programs over tenure.
- Collaborated within program teams and coordinated across multiple teams and programs; mentored and helped onboard teammates.

Associate Cyber Software Engineer 08/2020 – 02/2023

- Maintained and extended large program-specific automated test suites and GitLab CI pipelines (across multiple runners), and contributed upstream fixes to a shared internal test-framework repository used across programs.

Cincinnati Precision Instruments – Cincinnati, Ohio

Information Technology Manager 02/2019 – 05/2020

- Managed all IT operations and a \$300,000 IT budget, streamlining processes to cut operating costs by \$50,000.
- Led an IT department of 3 employees, recruiting, hiring, and conducting performance reviews for 2 college co-op / intern positions.
- Liaised with vendors and team members to promote ongoing network design; reevaluated and optimized systems and software to scale with company growth.
- Analyzed network security and infrastructure, recommending and installing upgrades across 55 workstations.
- Performed detailed risk/constraint assessments, identifying 6 major areas of unaccounted risk, and developed mitigation strategies and upgrades.
- Built and maintained a production virtualization environment of 12 business-critical virtual machines; streamlined processes using IndySoft and QuickBooks.

Software Developer / Software Engineer 01/2016 – 02/2019

- Analyzed, designed, administered, and supported 8 Microsoft SQL databases, including backup and migration strategies, with rigorous pre-deployment testing and post-deployment issue resolution.
- Worked directly with clients to establish problem specifications and system designs; collected feedback across planning, development, and release phases and addressed concerns directly.
- Designed, built, documented, and tested 28 major internal projects (12 new, 16 existing) using VBScript, C#, Java, Pascal, and Delphi, consistently surpassing client expectations.

Bugaboo Controls – Cincinnati, Ohio

Progressed from Specialist to a senior Foreman role; senior individual contributor rather than people manager.

Control System Specialist → Control Panel Foreman 2013 – 2015

- Consulted with the Engineering Department on discrepancies in dimensions, wiring specifications, panel layout, and incompatible parts prior to manufacture.
- Performed load and functionality testing of control panels, documenting all test procedures, corrections, and errors in conformance with Underwriter Laboratories (UL) specifications.

TECHNICAL SKILLS

Programming Languages: Python, C, C++, C#, Java, Assembly, VBScript, Pascal, Delphi (plus shell scripting; JavaScript/TypeScript and Go via open-source work).

Databases: Microsoft SQL Server (MSSQL), MySQL.

Systems, Networking & DevOps: Ubuntu Server 14.04 and later, macOS 10.8 and later, Windows 7/10/11, Windows Server 2008+, Cisco, GitLab CI runners, Docker, Nginx/reverse proxies, self-hosted infrastructure, virtualization.

Tooling & Other: LaTeX, Git/GitHub, IndySoft, QuickBooks.

EDUCATION

University of Cincinnati – Cincinnati, Ohio

- Master of Science, Computer Science (May 2025)
- Bachelor of Science, Information Technology — Cybersecurity Track (2020)

Cincinnati State Technical and Community College – Cincinnati, Ohio

- Associate of Applied Science, Software Engineering

PERSONAL PROJECTS

IoT Device Reverse Engineering & Integration

A range of exploratory projects to reclaim control of consumer devices and their data — kept public for the open-source community rather than actively maintained: Python libraries and bridges for Blink cameras (including a Blink-to-RTSP bridge); tools for Ford (a FordPass widget and a downloader for Ford service manuals); a Node CLI to download VW/Audi erWin service documents (session-auth plus magic-byte file-type detection); and drone photogrammetry work that included reverse engineering the Dronelink protocol used to programmatically control DJI drones.

[Blink bridge](#) · [Blink library](#) · [FordPass widget](#) · [Ford manuals](#) · [erWin downloader](#) · [Dronelink RE](#)

API Client Libraries (Python)

Authored several Python API clients, led by Pynab — a full-featured library for the YNAB (You Need A Budget) API and the most-starred project in the portfolio (~53 stars) — plus clients for Have I Been Pwned, LastPass, CPAP machine data, and voip.ms.

[Pynab](#) · [Have I Been Pwned](#) · [LastPass](#) · [CPAP](#) · [voip.ms](#)

Software Tools & Automation

Alrganizer — an AI-powered file-organization pipeline that recursively scans files, extracts metadata (EXIF, binwalk, MIME), analyzes each file with the best-fit AI model (OpenAI, Anthropic, or local Ollama), then proposes names, tags, and a hierarchical taxonomy and physically reorganizes the files; features full resumability via a permanent cache, dry-run mode, and privacy-focused local-model support. Also built reusable dev tooling: a Python project template, a GitHub fork-syncer, and Backblaze B2 Docker backups.

[Alrganizer](#) · [Project template](#) · [Fork-syncer](#) · [B2 backups](#)

VOLUNTEER & AWARDS

Ohio Cyber Reserve (OhCR) – Southwest Ohio Region

- 02/2020 – 08/2021
- 08/2022 – 11/2023

BRAVO Award (Northrop Grumman)

For a rapid, quick-turnaround customer delivery that fulfilled urgent warfighter needs (in support of multiple quick-reaction capabilities / QRCs).

Tailored resume – full resume & project portfolio at resume.austinconn.org