

Tyler Weeks

[linkedin.com/in/tylerdweeks](https://www.linkedin.com/in/tylerdweeks) | tylerwcodes@gmail.com | 256-527-8987

Summary

Python automation developer with 6+ years writing Python and 1+ year of experience building API driven automation workflows. Currently building a full-stack analytics tool that aggregates user data and analytics into a single dashboard. Architected several ETL pipelines that have eliminated over 300 hours of manual work in just 6 months.

Certifications and Technical Skills

Certifications - CompTIA Network+ N10-009, CompTIA Security+ SY0-701, Microsoft AZ-900, Microsoft AZ-104

Main Languages - Python, SQL | **Tools** - Docker, Git | **APIs/Cloud** - Microsoft Graph, REST, CCXT, Postman
Systems - Microsoft 365, Windows, Mac, Linux, VDI, Unix | **AI / Agents** - Claude, Locally ran models, Agentic workflows
Frameworks - Pydantic, FastAPI, Pandas, SQLAlchemy, Requests, Asyncio, JSON, SQLite3

Relevant Studies - Data Structures and Algorithms, Leetcode, Fluent Python, Chess, API Design and Integration

Current Projects

AccuDesk – Web Based Data Analytics Dashboard

(March 2026 - Active)

- Integrated Microsoft Graph API across 6 enterprise services (Entra ID, Intune, Identity Protection, Teams, Licensing, and Security Alerts) enabling real-time visibility into identity, device, and security data.
- Designed to centralize and automate enterprise identity and device monitoring, reducing manual investigation time and improving operational visibility.
- Includes a real-time network monitoring dashboard pulling from UniFi cloud API, providing live alerting on uptime, device health, and traffic anomalies across 3 sites.
- Unified user profiles that aggregate identity, devices, licenses, security events, and online activity status.
- Frontend - React 18, Vite | Backend - Python, FastAPI, SQLAlchemy 2 | Infrastructure - Docker

DashFlow – Portfolio Management Software

(July 2025 - January 2026)

- Built an asynchronous portfolio management software designed to run as a TUI, using Python's Textual framework.
- Streamed live market data from multiple crypto exchanges via CCXT, with real-time price and order book updates.
- Designed an SQLite3 database to store OHLCV data, trade history, and portfolio analytics, all modeled with pyplot.
- Features a built-in backtesting engine for creating, testing, and running custom built trading strategies.

Experience

Thomas Howell Fergusson – IT Technician & Automation Developer – Tallahassee, FL

(December 2025 - Present)

- Developed a Python ETL pipeline that automated Excel data ingestion and CaseWare Cloud API integration, eliminating 200+ hours of manual data entry.
- Created a bidirectional API ETL pipeline that allows Maconomy ERP and Hubspot CRM to communicate.
- Designed and developed a streamlit dashboard to aggregate device information pulled from Aegis Remote Management Systems.
- Made an excel remapper that saved over 80 hours of manual data parsing and file moves.
- Supported VDI/server operations via remote connection, enforced endpoint security policies with ThreatLocker, and administered remote monitoring/management via NinjaOne
- Provided help desk support across Microsoft 365 (Entra ID/Azure AD, Intune, M365 Admin Center), managing user devices, onboarding/compliance, and troubleshooting.

ClipRipper – Python Developer – Tallahassee, FL

(May 2025 - July 2025)

- Engineered a fully automated video editing pipeline with Python that recreated entire videos on command.
- Featured a built in analytics dashboard for live metrics across all YouTube creation accounts.
- Operated multiple fully autonomous YouTube channels until policy changes ended the monetization model.
- Database - (SQLite3), Editing - (Moviepy, Whisper, FFmpeg), APIs - (ElevenLabs, YouTube Data v3, HuggingFace)