

Tyler Weeks

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Summary

Automation and Integration developer specializing in ETL pipelines, automation workflows, and API integrations. 6 years writing scripts and tools in Python, including over a year of experience building fully automated enterprise level 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.

Current Project

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

Experience

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

(December 2025 - Present)

- Developed a Python ETL pipeline that automates Excel data ingestion and CaseWare Cloud API integration, eliminating 200+ hours of manual data entry.
- Used an Azure Function App, GitHub, and Python to create a bidirectional API ETL pipeline that allows SAP Concur and CaseWare Cloud to talk to each other.
- Designed and developed a Streamlit dashboard to aggregate device information pulled from Aegis Remote Management Systems.
- Built 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, WhisperX, FFmpeg), APIs - (ElevenLabs, YouTube Data v3, HuggingFace)

RexAir – Traveling Salesman – Huntsville, AL

(September 2020 - September 2022)

- Traveled around North Alabama selling all-in-one home cleaning and air purification systems.
- Responsible for scheduling my own demos and creating ad campaigns / incentives for customers.

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, Azure

Systems - Microsoft 365, Windows, Mac, Linux, VDI, Unix | **AI / Agents** - Locally hosted LLMs, Agentic workflows

Frameworks, Libraries, and Formats - Pydantic, FastAPI, SQLAlchemy, Pandas, SQLite3, Requests, Asyncio, JSON, CSV