

# Gregg K. Van Orden

Solutions Engineer | Automation Architect | Reverse-Engineering Specialist

[Personal Website](#) · [GitHub](#) · [LinkedIn](#)

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Reverse-engineering specialist and automation architect with 10+ years transforming opaque, legacy systems into autonomous Python/SQL-driven pipelines — scaling data ingestion, decoding black-box logic, and delivering enterprise-grade reporting across multi-source environments.

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## EXPERIENCE

### TRS Quarterly Sugar Tradeflow Automation

**Solutions Engineer** | Urner Barry / TRS (Tropical Research Services)

2024–2025

- Built a fully automated Python engine that replaced TRS’s manual quarterly Excel tradeflow process — ingesting multiple proprietary data sources and Global Trade API data into a structured SQL warehouse.
- Reconstructed TRS’s deeply linked Excel formulas via dynamic SQL and Pandas-driven Excel output — achieving exact parity across 150+ multi-tab reports with custom formatting, preserved formulas, and sugar-type import/export matrices.
- Deployed the solution as a QA-grade, zero-touch anomaly detection system — strengthening data trust, reducing manual effort, and surfacing inconsistencies across quarterly tradeflow outputs.
- Delivered a production-grade automation pipeline that earned stakeholder praise for the “joy and awe” it brought — eliminating manual workflows and enabling recurring, intervention-free reporting.

### iWatchLBS: Mobile Health & Nutrition Tracker (Cross-Platform)

**Independent Developer** (Entrepreneurial Projects)

2021–2025

- Developed a top-ranked iOS/Android app (Ionic + React + TypeScript) for nutrition tracking — supporting Weight Watchers’ SmartPoints, PointsPlus, ProPoints, and a custom PersonalPoints engine; peaked at #8 in Apple’s Health & Fitness chart with \$1,500/month in sales.
- Reverse-engineered WW’s proprietary PersonalPoints algorithm through float-precision input testing, achieving 100% prediction accuracy across 1,000+ diverse food items and edge-case biometric profiles — including gender, height/weight variance, and atypical nutriment combinations — isolating the core scoring engine beneath WW’s obfuscation layer.
- Remains the only publicly verified replication of the algorithm since its release in November 2021.
- Built modular features including barcode scanning (load-balanced via Nutritionix API), NLP-powered meal logging, daily/weekly rollover tracking, activity-based earnbacks, and weight monitoring dashboards.
- Successfully re-released under a new identity following a WW takedown attempt — maintaining a 4.5-star rating and generating \$6–8K/year in passive revenue since January 2023.

### Savings Bond Solutions: U.S. Treasury Bond Valuation Platform

**Independent Developer** (Entrepreneurial Projects)

2021–2024

- Built a full-stack U.S. Savings Bond valuation platform (React + Flask) replacing the defunct “Savings Bond Wizard” — enabling Series A–I (1935–2025) tracking with maturity, yield, and historical value calculations.
- Parsed and normalized 1,000+ position-encoded Treasury text files into a structured database with complete accrual logic, series-specific yield rules, and maturity schedules.
- Enabled account-level recordkeeping and uploads by auto-generating backend schemas for manual entry or bulk spreadsheet uploads of user savings bond data via CSV/XLSX templates.
- Implemented login/paywall gating with a preview-based monetization model and tax implications calculator — offering users bracket-driven insights into potential federal tax obligations.
- Platform is live and under modernization as part of a broader product relaunch.

## **Solutions Engineer (Data Engineering Focus) | Urner Barry**

2022–2025

- Engineered a modular ETL suite of 100+ Python scripts for USDA and international report data across PDF, XLSX, CSV, TXT, API, and JSON formats — significantly expanding coverage and powering scalable, automation-ready pipelines.
- Led overhaul of USDA ingestion architecture — replaced error-prone, hard-coded logic with a centralized stored procedure layer and dynamic date handling across 100+ pipelines, boosting data integrity while cutting maintenance.
- Invented a self-updating commodity-code engine that parses multi-format data sources to mint novel time-series identifiers — eliminating manual workflows and enabling real-time ingestion of emergent datasets.
- Reverse-engineered Global Trade Tracker imports, replacing legacy Excel methods with dynamic API calls, Unicode-sanitization, and automated HS-code/country mapping — delivering cleaner data and quicker downstream ingestion.
- Developed authenticated, requests-based, form-mimicking workflows to extract protected data from complex portals and APIs— reverse-engineering token systems, bypassing logins and paywalls, replicating ASP.NET POST flows, and dynamically generating headers — automating access to structured and file-based datasets.

## **Solutions Engineer (Post-Acquisition) | Mintec / Expana**

2025–Present

- Refactored 50+ legacy scripts into a modular, cloud-native framework — standardizing extract/parse/blob logic, reducing tech debt, and accelerating pipeline deployment.
- Drove Git-based Azure DevOps workflows — opened pull requests, led code reviews, and enforced structured branching for consistent, auditable releases.
- Replaced Selenium-based automations with lightweight requests pipelines — removing brittle dependencies, slashing runtimes, and enhancing long-term reliability.
- Secured operations by centralizing static paths and migrating hard-coded secrets to Azure Key Vault — boosting maintainability, auditability, and multi-user scalability.
- Modularized location-specific pipelines — replacing fragile loops with template-driven scripts, enabling granular logging, isolated debugging, and streamlined deployment — establishing the foundation for scalable, AI-assisted ingestion.

## **STEALTHbits Technologies Inc. (acquired by Netwrix)**

2012–2020

QA Analyst → Sr. Professional Services Engineer → Pre-Sales Solutions Specialist

- Began as a QA engineer on STEALTHbits' flagship AD, FS, SP, and SQL auditing suite — validating security analytics and real-time file system monitoring.
- Built PowerShell automations that generated deep, highly nested folder hierarchies with granular ACLs, stress-testing structural and behavioral auditing accuracy.
- Promoted to Professional Services — led complex client implementations, live troubleshooting, and custom workflow delivery across SQL, PowerShell, AD, FS, and SP.
- Influenced high-stakes presales wins — including John Deere and RBC — by optimizing performance, notably redesigning a SQL script that processed billions of file-system access records, cutting runtime from weeks to minutes and rescuing a seven-figure deal with John Deere.
- Designed and delivered mission-critical POCs and demo environments for 5–7 figure opportunities — serving as technical advisor for AD security, compliance, and access governance.
- Led global enterprise deployments, including a 6-month on-site engagement with HSBC UK to guide rollout and resolve high-priority client issues.

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## **EDUCATION**

Lehigh University | Bethlehem, PA — B.S., Business

## **SKILLS**

### **Programming & Frameworks:**

Python (Pandas, Numpy, Openpyxl, Pdfplumber, lxml, XPath, Requests, BeautifulSoup, Pytesseract, Regex, REST APIs) · SQL (T-SQL, PostgreSQL, MySQL) · HTML · CSS · JavaScript (ES6+) · React · jQuery · TypeScript · PowerShell · Flask · Ionic

### **Cloud, DevOps & Infrastructure:**

Azure (Blob Storage, Key Vault, DevOps) · AWS (S3, CF, Route 53, Amplify, ACM) · Linux VPS Hosting (Apache, SSL) · Docker · Databricks · GitHub · Jira · CI/CD · Kubernetes · Selenium · VMware · Hyper-V · FTP/SFTP · CLI (Win/Linux/Mac) · VS Code