# Gregg K. Van Orden

Solutions Engineer | Automation Architect | Scalable Systems Designer

Personal Website ▪ GitHub ▪ LinkedIn

Phone: (201) 321-8040 · Email: greggvanorden@gmail.com · Location: Seaside Heights, NJ (Remote-Capable)

Reverse-engineering specialist and full-stack automation engineer with 10+ years of experience designing enterprise-grade pipelines, replacing fragile legacy workflows, and solving high-complexity problems through dynamic scripting, schema architecture, and scalable, data-driven systems. Pioneered entrepreneurial solutions where none existed — including the only publicly confirmed derivation of Weight Watchers' PersonalPoints algorithm and a multi-source reporting engine that transformed Excel-based economic workflows into a fully automated, database-backed platform.

---

## EXPERIENCE

### TRS Quarterly Sugar Tradeflow Automation

**Solutions Engineer** | Urner Barry / TRS (Tropical Research Services) *2024–2025*

▪ Designed and deployed a fully automated Python-based engine replacing TRS's manual Excel tradeflow process, integrating 5+ spreadsheets and GTT API data into a SQL warehouse using structured mapping and deduplication logic.
▪ Reproduced TRS's deeply linked Excel formulas as dynamic SQL queries, ensuring exact parity across 150+ auto-generated, formula-preserving multi-tab reports with merged headers and custom styling.
▪ Deployed as a QA-grade anomaly detection and proofing system — improving accuracy, reducing manual workloads, and strengthening data trust across internal sugar trade workflows.
▪ Delivered a productionized, self-sustaining automation pipeline praised by stakeholders as evoking "joy and awe" — eliminating TRS's manual quarterly tradeflow processes and enabling recurring, intervention-free reporting cycles.

### 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 WW SmartPoints, PointsPlus, and ProPoints systems, as well as a custom-engineered PersonalPoints algorithm.
▪ Reverse-engineered WW's proprietary PersonalPoints algorithm through float-precision input testing, achieving 100% prediction accuracy across 1,000+ food items paired with edge-case biometric profiles — including gender, height/weight variance, and atypical nutritional scenarios — isolating the true scoring engine beneath WW's obfuscation layer.
▪ Built modular features including barcode scanning (with API load-balancing), NLP-powered meal logging, daily/weekly rollover tracking, activity-based earnbacks, and weight monitoring.
▪ Peaked at #8 in Health & Fitness with $1,500/month in sales; following a WW takedown attempt, successfully re-released under a new identity, maintaining a 4.5-star rating and $6–8K/year passive revenue since January 2023.

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

**Independent Developer** (Entrepreneurial Projects) *2021–2024*

▪ Built a full-stack bond valuation platform (React/Flask) replacing the defunct U.S. Treasury "Savings Bond Wizard" — enabling tracking, maturity, and yield calculations for Series A–I (1935–2025).
▪ Parsed and normalized 1,000+ encoded, positionally formatted Treasury text files into a structured database with complete accrual logic, maturity schedules, and series-specific yield rules.
▪ Enabled account-based historical record retention and retrieval by dynamically generating backend schemas for manual entry and bulk spreadsheet uploads of users' paper savings bond data.
▪ Designed login/paywall gating with a preview-based monetization model and integrated tax implications calculator for bond valuation and maturity scenarios — offering users bracket-based insights into potential federal tax obligations.
▪ Platform remains live and is currently undergoing modernization as part of a broader product relaunch.

**Solutions Engineer (Data Engineering Focus)** | Urner Barry *2022–2025*

▪ Overhauled the ETL architecture for USDA report-based imports, designing a dynamic date system and centralized database logic layer to standardize ingestion, interaction, and execution across 100+ pipelines via stored procedures.
▪ Built a self-updating commodity code engine that parses USDA JSON reports to auto-generate novel time-series identifiers, bypassing manual processes and enabling instant ingestion of emergent data.
▪ Developed modular ETL pipelines for PDF, XLSX, CSV, TXT, and API-based USDA and international reports — leveraging Python libraries (requests, pdfplumber, pandas), regex filtering, HTML/XPath traversal, and metadata-aware indexing.
▪ Reverse-engineered Global Trade Tracker (GTT) ingestion workflows — converting mirrored/non-mirrored Excel logic into programmatically generated API calls with Unicode sanitization and programmatic HS Code + country mapping.
▪ Engineered authenticated, form-mimicking workflows to automate extraction of post-protected USDA reports — bypassing login walls via requests and dynamically replicating ASP.NET POST behavior and user interactions (filter selections, radio buttons, date ranges), enabling scalable ingestion across all commodity-country pairings and datasets.

**Solutions Engineer (Mintec Post-Acquisition)** | Urner Barry *2025–Present*

▪ Refactored 50+ legacy scrapers into a modular, cloud-aligned framework using standardized extract/parse/blob storage logic — streamlining onboarding, reducing tech debt, and ensuring consistency across Python-based pipelines.
▪ Operated in an Azure DevOps environment using Git for version control, contributing via pull requests, code reviews, and structured branch workflows.
▪ Replaced Selenium-based automations with streamlined, requests-based pipelines — reducing dependencies, accelerating runtimes, and improving maintainability.
▪ Migrated hard-coded paths, credentials, and tokens into secure Azure Key Vault and dynamic environment configs, enhancing system maintainability, auditability, and multi-user scalability.
▪ Modularized location-specific pipelines to replace fragile loop-based scripts — enabling precise logging, isolated debugging, and templated scaling across additional locations, while laying foundations for future AI-assisted refactoring.

**STEALTHbits Technologies Inc. (acquired by Netwrix)** *2012–2020*

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

▪ Started in QA engineering for STEALTHbits' flagship security analytics tools focused on Active Directory (AD), File System (FS), SharePoint (SP), and SQL Server (SQL) auditing and File System Activity Monitoring.
▪ Developed PowerShell-based automation tools to simulate production-scale file share structures and randomized domain user activity — dynamically generating deep folder/file hierarchies with granular share and file-level permissions to validate structural and behavioral auditing accuracy.
▪ Promoted to Professional Services, leading complex client implementations, real-time environmental troubleshooting, and customized solution delivery via SQL, PowerShell, AD, FS, and SP-based workflows.
▪ Rescued a failing pre-sales engagement with John Deere by redesigning a SQL script analyzing billions of file system access records — cutting execution time from weeks to minutes and helping close a 7-figure deal.
▪ Delivered mission-critical POCs and demo architectures supporting 5–7 figure opportunities, acting as a technical advisor for sales tied to AD security, risk compliance, and access governance.
▪ Supported global enterprise deployments, including a 6-month on-site engagement with HSBC UK to guide implementation and resolve high-priority client issues.

## EDUCATION

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

## SKILLS

**Programming & Frameworks:**
Python (pandas, numpy, openpyxl, pdfplumber, lxml + XPath, requests, BeautifulSoup, pytesseract; regex techniques, API scripting) ▪ SQL (T-SQL, Postgres, MySQL) ▪ TypeScript ▪ JavaScript ▪ PowerShell ▪ Flask ▪ Ionic ▪ React

**Cloud, DevOps & Infrastructure:**
Azure (Blob Storage, Key Vault, DevOps) ▪ AWS (Route 53, Amplify, ACM, CF) ▪ Linux VPS Hosting (Apache, Flask, SSL config) ▪ Git ▪ Jira ▪ REST APIs ▪ Selenium ▪ VMware ▪ Hyper-V ▪ FTP/SFTP ▪ Terminal (Windows, Linux, macOS) ▪ VS Code