



PowerShell

Setup AD, OUs, Add users from CSV - Set up AD, OUs, add users from CSVs on GitHub

Move OUs at end of school year - Shifts OUs at end of school year, archives graduating OU, adds new OU

Play school announcements & run analytics - Automates school's morning announcements at Westbrook High School to play everyday at 9:30 a.m. on every monitor in school. Collects statistics about the videos with help of the Google API

Enable/Disable inactive AD users (GUI + .NET) - Disables and enables inactive users individually or by OU in Active Directory. GUI written in .NET.

AD password generator (GUI + .NET) - Active Directory password generator. Generates password via csv files that user specifies and appends extra characters. GUI written in .NET.

Update AD employee numbers (+ System.Speech) - Compare two CSVs that contain names and if a name isn't consistent between both CSVs, add the name as a new AD user. Script is narrated with System.Speech.

TimeSheet Automator - Automates creating and editing my weekly timesheets (Word files) at Westbrook instead of filling them out by hand.

Network Necromancer - Adds, removes, and connects to networks by implementing variations of 'netsh wlan show profiles' in the backend. Cleans up networks stored on a computer's NIC, export and import network based XML files. Utilize this script to move the networks stored on one computer onto another computer without manually connecting to networks and inputting passwords.

Partition Pantheon - Flash drive/hard drive partitioning that automates formatting, naming, setting letters, and allocating size to partitions. Move files to partitions based on file extensions.

GitHub PowerGrabber - Downloads zip folders of all repositories associated with a requested GitHub page. 100% PowerShell and does not need Git to be installed.

FireShell - Custom outbound Windows Defender Firewall rules that lookup IP addresses for web servers and blocks them.

IP-Binary Game - CLI game to practice converting a user's IP address or a random IP address to binary.

EliteShell - Windows desktop application/game designed for users to practice PowerShell cmdlets for Windows and Windows Server administration and daily tasks. For each correct answer, users receive points that they can use to 'buy' other PowerShell scripts from GitHub.

Python - SQL - Docker   

Vig-LMS - Learning Management System (LMS) that allows teachers to enroll students into classes and manage their grades. Teachers can add assignments and manage/organize their course material.



Students can create an account and check their grades, provided that they are enrolled in a class on Vig-LMS. *Video on Señor Viglione YouTube channel.*

Practice Spanish, Buy Flights - Three-tiered language learning app built with Flask for backend, HTML/CSS/Javascript for frontend Leverages AWS services: Cognito, RDS, Translate, Transcribe, S3, Lex, Secrets Manager Deployed on AWS Fargate with Docker image pushed to ECR via CI/CD pipeline with GitHub Actions and Terraform. Utilizes a PostgreSQL DB. Domain purchased through AWS Route 53 (domain now defunct). *Video on Señor Viglione YouTube channel.*

Fresh Tech Talent ATS -Applicant Tracking System for SDE positions that selects applicants who have attended coding bootcamps. Serverless with AWS Lambda and uses AWS Textract AI to find keywords in résumé. *Video on Señor Viglione YouTube channel.*

Arctic Monkeys Rest API - Arctic Monkeys themed Rest API written in Python and running on AWS Lambda with AWS API Gateway. Leverages Terraform for deployment. *Video on Señor Viglione YouTube channel.*

Bash/Linux (Ubuntu) - Docker



Download Docker & run Practice Spanish, Buy Flights - Installs Docker on Ubuntu (AWS EC2), pulls image for Practice Spanish, Buy Flights, and runs it on port 80. *Video on Señor Viglione YouTube channel.*

Install Apache & run Django API - Installs Apache web server on Ubuntu (AWS EC2), git clones Django Rest Api, and runs it on port 80. *Video on Señor Viglione YouTube channel.*

Add users, download Docker, run Postgres & setup database -Adds users to Ubuntu (AWS EC2), downloads Docker, runs Postgres in container, and populates database with CSV files. *Video on Señor Viglione YouTube channel.*

Terraform - Docker



Setup Ubuntu server for CI/CD pipeline - Creates the Ubuntu server (AWS EC2) and runs through the CICD pipeline when code is pushed to the main branch of GitHub repo. Leverages Docker and AWS container services (ECS). *Video on Señor Viglione YouTube channel.*

Create static website with S3 bucket HTML & connect to CloudFront CDN - Takes a HTML document stored in an AWS S3 bucket and connects it to AWS Cloudfront CDN to create a static website.

Run ETL with AWS Glue on a CSV file, filter PII, & populate Postgres db - Runs an extract, transform, load job with AWS Glue on a CSV file stored in S3 bucket, eliminates PII, and populates a Postgres db with the new data. *Video on Señor Viglione YouTube channel.*