Andrew Doyle

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Portfolio - andrewfdoyle.com

Local Inventory Database System (LIDS) to stop food waste

- Created a MariaDB database on a Raspberry Pi which is managed by Python scripts

- Tracks wasted food and controls by generating automatic shopping lists and reminding about future expire items

Game Growth Dashboard

- Tracks game and streamer view count from Twitch API and allows the user to plot data that tracks changes over multiple timescales for game popularity

Education

Mechanical Engineering, BSME	Apr 2020
University of Pittsburgh	*Pittsburgh, PA*

Certificates: Simulation in Engineering Design, Nuclear Engineering

General Studies, AS	Aug 2017
Community College of Allegheny County (CCAC)	*Pittsburgh, PA*

Skills & Certifications

ETL & Analysis MySQL, MariaDB, Google Sheets, Microsoft Excel: VBA Macros, C++, MATLAB, R, Python: Pandas, Matplotlib, NumPy
Communication Tableau, Google Slides, Microsoft PowerPoint
Markup & Web HTML, CSS, GitHub Pages, Google Cloud
Certifications Google Data Analytics Certificate, PA State Registered Mechanical Engineer EIT: ET030017

Experience

WESCO Distribution	May 2022 - Present
Analyst - Supplier Data Governance	*Pittsburgh, PA*

- Reviews and confirms supplier details for company record, prevents fraud by enforcing policies to department standards

- Participates in LEAN process through daily stand ups, and tracking of supplier data metrics to identify inefficiencies

Lowe's Home Improvement	May 2021 - Aug 2021
Lumber Associate	*McCandless, PA*

American Eagle Outfitters	Oct 2020 - Jan 2021
Corporate Customer Representative	*Remote*

Society of Astronautics and Rocketry	Dec 2019 - Apr 2020
Simulation Team Lead	*Pittsburgh, PA*

- Coordinated sub-team tasks for flight characteristics in OpenRocket and USLI competition report writing for the simulation section and the Failure Modes and Effects Analysis (FMEA) intra-sub-team section.

- Used simple ANSYS simulation to calculate static structural factor of safety in the vehicle thrust plate

Physical Metallurgy and Materials Design Lab	Aug 2018 - Feb 2019
Undergraduate Researcher	*Pittsburgh, PA*

- Processed inconel 718 samples with MetPrep 3 grinder/polisher and verified work under optical microscope for further evaluation

- Completed Rockwell hardness tests and provided basic statistical analysis