

Andrew Doyle

724-940-1947 | andrew.fowler.doyle@gmail.com | [linkedin.com/in/andrewfdoyle](https://www.linkedin.com/in/andrewfdoyle)

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 [In progress]

- Tracks game and streamer view count changes over several time intervals to gauge shifts in future popularity of games
- Tableau dashboard connects to Twitch data source

Education

Mechanical Engineering, BSME

University of Pittsburgh

Certificates: Simulation in Engineering Design, Nuclear Engineering

Apr 2020
Pittsburgh, PA

General Studies, AS

Community College of Allegheny County (CCAC)

Aug 2017
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

Lowe's Home Improvement

Lumber Associate

May 2021 - Aug 2021
McCandless, PA

- (Seasonal) managed shelf inventory for Lumber & Building Materials and helped customers in product location, details, and services such as wood cutting or loading assistance.

American Eagle Outfitters

Corporate Customer Representative

Oct 2020 - Jan 2021
Remote

- (Seasonal) Consistently handled the most calls per day, was a proactive communicator leading to quick resolution of problems. Attended to customer issues and customer-facing store issues across North America.

Society of Astronautics and Rocketry

Simulation Team Lead

Dec 2019 - Apr 2020
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

Undergraduate Researcher

Aug 2018 - Feb 2019
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.

Math Café - CCAC

Peer Tutor

Jun 2016 - Dec 2016
Pittsburgh, PA

- Assisted students with college level and remedial mathematics to improve student retention and increase confidence in math ability.