Andrew Doyle

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Portfolio - andrewfdoyle.com

Local Inventory Database System (LIDS) to stop food waste
Created a LAMP Server on a Raspberry Pi 3 and a physical user interface to lessen food waste and spending by tracking food inventory and generating automatic reminders and grocery lists for the user.

1. use Linux CLI to interact with MariaDB database
2. Python automatically emails stakeholders SQL query-derived shopping list
3. Uses VNC virtual machine to monitor headless Raspberry Pi

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

Databases & Data Analysis MySQL, MariaDB, Google Sheets, Microsoft Excel: VBA Macros, C++, MATLAB, R, Python: Pandas, Matplotlib, NumPy
Website & Communication Tableau, HTML, CSS, GitHub, Google Cloud hosting, Wordpress
Certifications Google Data Analytics Certificate, PA State Registered Mechanical Engineer EIT: ET030017

Experience

Lowe's Home Improvement   May 2021 - Aug 2021
Lumber Associate   *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   Oct 2020 - Jan 2021
Corporate Customer Representative   *Pittsburgh, PA*

- (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   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.

Math Café - CCAC   Jun 2016 - Dec 2016
Peer Tutor   *Pittsburgh, PA*

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