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

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

Education

University of Pittsburgh   *Apr 2020*
B.S., Mechanical Engineering
Certificates: Simulation in Engineering Design, Nuclear Engineering

Community College of Allegheny County (CCAC)   *Aug 2017*
A.S., General Studies

Experience

Lowe's Home Improvement   *May 2021 - Aug 2021*
Lumber Associate   Seasonal Position

- Provided assistance to customers in the Lumber and Building Materials department and attended to its upkeep

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

- Created customized responses for store and customer cases that could reduce typical resolution time while increasing satisfaction

Society of Astronautics and Rocketry   *Dec 2019 - Apr 2020*
Simulation Team Lead   School Club Position

- Coordinated sub-team calculations 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 structural factor of safety in the vehicle thrust plate.

Physical Metallurgy and Materials Design Lab   *Aug 2018 - Feb 2019*
Undergraduate Researcher   Student Position

- 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   Part Time Position

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