Fermin Ramos

Albuquerque, New Mexico, United States

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**Profile**

Data-driven individual with an interest in general backend programming or data analysis. I have developed smaller real-world programs for my family’s business, school assignments, and personal passion projects. However, I feel a strong need to aim my abilities to the next level of production-level scalability and usefulness.

**Education**

*University of New Mexico* (2019 – Present)

B.A. in Computer Science & Minor in Statistics | JUNIOR | GPA: 3.25

**Relevant Courses**

[] CS152 – **Python** *(Computer Programming Fundamentals)*

[] CS241 – **C** *(Data Organization using Linux)*

[] CS251 – **Java** *(Intermediate Programming)*

[] ECE 238 – **VHDL** *(Computer Logic Design)*

[] CS261 – *(Discrete Mathematics for CS)*

[] Stats341 *(intermediate)*

[] Calculus I & II

**Relevant Achievements**

[] School of Engineering Peer-Mentor, 4x Semesters

[] Member of The National Society of Leadership and Success, Honor Society

[] School of Engineering Dean’s List: Fall 2019, Spring 2020, Spring 2021

**Work Experience**

*Database Creation & Data Visualization* (2022 – Present)

[] Developed a database of all CCNE & NLN accredited schools across the nation, using python scripts that could pull data from the websites within milliseconds.

[] Utilized a Geocoding API to list the latitude and longitude of all CCNE or NLN accredited schools within the country.

[] Helped build a Geographic Information System (GIS) map to help identify weak points in Disaster Preparedness within the United States, using existing databases and other databases mentioned above.

**Projects**

*Food For Kids (****Java*** *+* ***Apache POI****)*

[] Designed and programmed a Java automation script for creating weekly nutritional menus on MS Excel *for my family’s local business.*

[] Program was designed to handle multiple input files containing dozens of food options. Program randomizes three meals for each day of the week, including beverages, snacks, proteins, grains, vegetables, and fruits. Final output written onto an MS Excel Spreadsheet (using Apache POI) with proper formatting and data. Program assures that no child gets served the same meal twice in a row.

[] System adheres to state and federal guidelines for daily nutrition.

[] Automation system later updated and expanded for other surrounding independent daycare businesses (i.e., it’s not just used with my family business, other similar businesses use this program as well)

*Tour de France (****C****)*

[] Program organizes raw data from the final classification of Tour de France riders into various formatting files. Data can be sorted by team, country, or by classification.

[] Program is designed to handle thousands of data entries with ease.

*Book & Author (****Java****)*

[] Is a program designed to create, store, and manage hundreds of books, as if it was the backend system to a library. Program is also designed to handle minor errors, such as checking out more books than those available.

[] Program can recognize total copies in library, number of books checked out, print library status, add books (unique), add books (copies), check out books, check in books, as well as list books by title/author.

[] Achieved proficiency utilizing constructors, methods, objects, and classes throughout the scope of this program

*Um, the presentation tracker (****Python****)*

[] Utilizing Apple’s native speech recognition software, “*Um, the presentation tracker*” listens to a presenter’s speech in real time and auto-detects any flawed speech habits. Program defines “flawed speech habits” as being universally agreed upon “no-no’s” when presenting, such as using the word “um”. Gives a total count of how many errors a presenter made for each flawed speech habit word.