

Fermin Ramos

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Education

Bachelor of Arts in Computer Science with a minor in Statistics
The University of New Mexico

Anticipated: 12/2023
GPA: 3.12

Honors & Activities

School of Engineering Dean's List: Fall 2019, Spring 2021
The National Society of Leadership and Success (honor society), Member
UNM's Chemical Engineering AICHE Car Team, Member (2022 – Present)
Lobo Rainforest Hackathon 2023, Winner
School of Engineering Peer Mentor, 4x Semesters

Experience

Mentorship, Data Analysis
Central Intelligence Agency (CIA)

02/2024 - 04/2024

- Participated in a rigorous mentorship program with the CIA focused on strategic planning, intelligence analysis, and case briefings.
- Engaged in simulations that required quick decision-making, which developed my ability to stay composed and accurate under tight deadlines.
- Engaged in unique CIA briefing exercises, which enhanced my report-building and presentation skills in delivering precise and reliable information to decision-makers.

Research Assistant, Data Analysis and ArcGIS Visualizations
University of New Mexico, College of Nursing

12/2022 - 05/2024

- Developed custom web-scraping Python programs to build and manage underlying datasets for a Geographic Information System (GIS), which helped universities and hospitals identify weak points in their disaster preparedness.
- Scaled the project's dataset collection from 1 dataset to more than 400, including sources from the FBI, EPA, CCNE, NLN, Census, and FEMA, resulting in significantly more accurate statistical analysis and insights.
- Worked with an interdisciplinary team of professionals to aid in the development of a public graphical interface, which has enabled users across the United States to see a visualization of their community's disaster vulnerability based on locational data. (<https://arcg.is/oq4ey4>)

Backend Programmer
EatWell Solutions

12/2023

- Co-founded a mobile-based application based on winning entry in the 2023 Lobo Rainforest Hackathon, which bridges the gap between dieting and budget apps by using open-source recipe databases to curate weekly diet-friendly meal plans for users.

- Contributed to the development of the backend algorithm to integrate open-source recipe databases with Java.
- Integrated Java APIs of local grocery stores (Kroger, Albertson's, Target) into the app to provide a cost-based and geolocation analysis of where groceries for meal plans could be purchased at the lowest price.
- App secured funding from outside investors.

Backend Programmer

Food for Kids, Java and Apache POI

09/2021

- Programmed a Java automation script to create weekly meal plans on Microsoft Excel, that enabled a local daycare business to automate its menu planning based on their available groceries.
- Designed the program to handle dozens of input files, resulting in an application that provides three randomized nutritionally balanced meals for each day of a week for children and ensures that no child gets served the same meal twice in a row.
- Ensured system adhered to federal and New Mexico state guidelines for daily nutrition, enabling real-world use of the system.
- Updated and expanded the automation system for use at other independent daycare businesses in the Albuquerque area.

Publications and Posters

Rogers, Astle, Potter, Couig, **Ramos**. Nursing for Planetary Health – Actualizing the Planetary Health Education Framework, accepted at the 2024 Planetary Health Summit and Sixth Annual Meeting (PHAM) in Malaysia.

Lavin, Couig, Kelley, Schwartz, **Ramos**. Healthcare Impacts Associated with Federally Declared Disasters–Hurricanes Gustav and Ike, *International Journal of Environmental Research and Public Health*, 2023 Apr 4;20(7):5388. doi: 10.3390/ijerph20075388.

Skills and Certifications

| Python (advanced) | Java (advanced) | C (proficient) | Pandas (proficient) | ArcGIS (proficient) | Spanish (advanced) |