

# Fermin Ramos

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## Education

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Bachelor of Arts in Computer Science with a minor in Statistics  
The University of New Mexico | GPA: 3.12 | Anticipated: 12/2024

### Honors & Activities

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

## Experience

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**Data Analyst**, Mentorship 02/2024 - 04/2024  
Central Intelligence Agency (CIA)

- Completed CIA mentorship training on strategic planning, intelligence analysis, and case briefings.
- Worked in decision-making simulations, enhancing composure and accuracy under deadlines.
- Refined my report-building and presentation skills through unique CIA briefing exercises.
- Excelled in tailoring presentations to the audience's knowledge level, emphasizing details for experts and the big picture for less knowledgeable audiences.

**Data Analyst and ArcGIS Visualizations**, Research Assistant 12/2022 - 05/2024  
University of New Mexico, College of Nursing

- Responsible for data extraction, processing, and mapping for a Geographic Information Systems (GIS) program meant to identify weak points in our national disaster preparedness programs, for universities and hospitals alike. (<https://github.com/C-DRAPS>)
- 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.
- Learned a wide array of data extraction techniques including APIs, web scraping with

Selenium, and automated mouse movements, leading to over 1 million collected data points since my arrival.

- Constructed all 500 GIS layers currently listed on our ArcGIS website (<https://arcg.is/Oq4ey4>) and optimized project updating times by 90% (from 10 minutes down to 1 minute) by restructuring to a modularized system.

**Backend Programmer**  
*EatWell Solutions*

12/2023 – 02/2024

- 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**  
*Corazoncitos Felizes*

09/2021

- Programmed a Java automation script to write 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.
- The 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

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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, Schwarts, **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

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| Python (advanced) | Pandas (proficient) | SQL (familiar) | R (familiar) | Excel (advanced) |  
| ArcGIS (proficient) | Spanish (advanced) | Java (advanced) | C (familiar) |