

Ignazio Perez Romero

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Education

Cornell University, College of Arts & Sciences

Expected May 2025, Ithaca, NY

Bachelor of Arts in Computer Science, Minor in Business, Minor in Operations Research and Management Science

GPA: 3.03

Honors: 2022 HSF National Leadership Conference Alumni (120 students out of 100,000 applicants), 2021 HSF Scholar

Related Courses: Introduction to Computing using Python, Object-Oriented Programming & Data Structures (Java), Calculus I & II, Discrete Structures, Functional Programming, Foundations of Artificial Intelligence, Linear Algebra

Technical Skills

- **Backend Development Tools:** Python, Java, OCaml, AWS, Docker, MongoDB, GraphQL, REST, Google Cloud
- **Frontend Development Tools:** HTML5, CCS3, Swift, React.js and React Native, JavaScript
- **Other:** Git, GitHub, GitLab, Swagger, VS Code, Eclipse, IntelliJ, Excel, Word, PowerPoint, fluent in English, Spanish, and semi-fluent in French

Experience

Backend Software Developer

May 2023-August 2023

Toyota Motors North America

Plano, TX

- Enhanced the efficiency of API calls by integrating GraphQL to replace previous REST implementations and reducing the amount of data being fetched.
- Wrote Swagger documentation to clearly describe the purpose of various functions and increase collaboration.
- Learned about the Sprint system and how program management occurs at a large production scale level.

CIS: CSMORE Alumni

July 2022-August 2022

Cornell University

Ithaca, NY

- Completed an intense 4-week program that gave diverse students a preview into higher-level classes such as Discrete Math, Functional Programming, and Introduction to Computer Organization and Systems Programming
- Only 30 applicants were chosen from over 100, all from Cornell's Top 10 CS program and paid a stipend.

Multi-Disciplinary Head Tutor

August 2021-May 2022

Conejo Valley Unified School District

Thousand Oaks, CA

- Administered tutoring as the head tutor for both the science center and world language center.
- Collaborated with UX developers and the school district board to tutor on the new CVUSD online platform.

Projects

Sudoku Solver

January 2023

Independent Project

San Juan, PR

- Created a solver which would take a picture of an unsolved sudoku board and return the finished board.
- Integrated machine learning through a simple handwritten number recognition neural network to receive the input and combined that with various Python scripts that utilized camera and GUI APIs.

2048: Terminal Game

December 2022

CS3110 Final Project

Ithaca, NY

- Composed the game 2048 using the functional language OCaml completely from scratch.

Soil-E Mobile App

October 2022

Major League Hacking: Big Red//Hacks 2022

Ithaca, NY

- Created Soil-E, which suggests cover crops for farmers based on crop history, which aims to increase crop yield for farmers internationally and increase efficiency of farming through ensuring the soil has adequate nutrients.
- Utilized React Native to create a simple frontend, which I later connected with a backend that my teammate made.

Extracurricular Activities

- Raised over 10,000 dollars for a charity called Ability Experience as the **Events Chair** of Pi Kappa. (2023)
- Empowered fellow minorities by mentoring through **Underrepresented Minorities in Computing**. (2021-23)
- Led **Cornell Santos FC** to a second-place finish in the New York collegiate club soccer league. (2022)
- Elected **Mental Health Chair** for Pi Kappa Phi, where I promote wellbeing through one-on-one checkups. (2022)
- Organized 10 volunteers to make 200 postcards for **ReclaimOurVote** to promote underrepresented voting. (2020)
- Appointed as an official **Translator** for Newbury Park High School, translating class material from English to Spanish which led to a significant grade increase for Central American immigrants. (2019)