Ryan Gomez

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Education

Cornell University, College of Arts and Sciences August 2022 – May 2025
Bachelor of Science in Statistics, Computer Science
- **Courses:** OOP and Data Structures, Computer System Organization, Discrete Structures, Algorithms, Linear Algebra, Introduction to Backend Development

Skills

Languages: Python, SQL, Java, JavaScript, Node.js, .NET
Technologies: VS Code, PostgreSQL, MySQL, Flask, FastAPI, OpenAPI, Provar, Firebase, AWS, Git, Slack

Experience

Cornell University | Researcher - Data Analyst
Sept 2023 – Dec 2023
Private Ivy League research university in Ithaca, New York.
- Analyzed court transcripts to determine disparate questioning during the voir dire in court.
  - Built Verdict, an automated transcript analysis tool to gather insights on transcripts.
  - Developed Python scripts using Natural Language Processing libraries to analyze questions.
  - **Discovered disparate questioning evidence in capital crime via Verdict analysis.**

NYC East Elmhurst Hospital | Backend Engineering Intern
Sept 2023 – Dec 2023
A local hospital in Queens, NY.
- Built a virtual consultation platform with mobile compatibility for patients and doctors.
  - Collaborated with other interns using Git and Python.
  - Utilized MySQL to facilitate scheduling appointment systems.
  - **Utilized by 80% of all patients with no access to on site consulting.**

Cornell University | Researcher - Data Engineer
June 2023 – August 2023
Private Ivy League research university in Ithaca, New York.
- Developed an algorithm to appropriately measure centerlines for stalls in Alzheimer research.
  - Utilized TensorFlow and Python to align stall detection in mice brain images/videos.
  - Collaborated with graduate researchers to streamline data from Python script to Excel sheets.
  - **Improved accuracy of image recognition to 90% for all images, up from 10%.**

Weill Cornell Medicine | Software Developer - Backend
June 2022 – August 2022
Graduate School of Medicine
- Developed a program to generate user interfaces tracking Covid-19 disease spread across states and counties.
  - Used Tableau and PostgreSQL for graph representation linked to live data feed
  - Cleaned up and collected health data using Python and VS Code
  - **Automated approximately 90% of total US population, and 20% for total foreign population**

Projects

Eco iOS App
- Developed backend of Eco, which tracks a user's daily activities to advise carbon footprint reduction.
- Placed top 3 for best environmental app at Cornell Apps.

Apollo Web Application
- Collaborated with frontend developers to track families unenrolled in Medicaid by government errors.
- Designed and implemented RESTful APIs to authenticate users and maintain privacy.
- Utilized Flask to develop the web application, streamlining the re-enrollment process for families.

Covid-19 UX
- Programmed a user interface using NumPy and Pandas libraries to synthesize Covid data at Weill Cornell Med.
- Collaborated with engineers to update legacy codebases at Weill Cornell Med.

Relevant Leadership & Awards

Underrepresented Minorities in Computing (URMC)
- **Event Coordinator:** Coordinated events to improve the cohesion among students in CS courses and held review sessions to help members succeed. Sept 2023 – May 2023
- **Mentor:** Involved mentees into the club and taught them more about the CS curriculum at school. Sept 2023 – Dec 2023