

FREDDY ALEXANDER SANCHEZ C.

@ fas6501@nyu.edu 📍 NYC Area 🌐 falexsanchez.com in www.linkedin.com/in/FreddyASanchez99 📧 AlexanderS10

EXPERIENCE

Food Server

1770 House

📅 Summer 2021 – Present 📍 East Hampton, NY

- Familiarizing guests with the menu at the restaurant.
- Serving beverages and food in a timely and yet friendly and professional manner.
- Attend guests before, during and after their meal.

Database Management Intern & Volunteer

HorseAbility

📅 January 2018 – May 2019 📍 Old Westbury, NY

- Used existing HorseAbility database about their events and donors and created a new database with a more readable format.
- Eliminated data redundancies and uploaded it to Sales-Force
- As an intern I ensured safety of children with especial needs while horseback riding and how to communicate better with them.

PROJECTS

Scalable Reservation Engine

Spring 2025 – Present

- Developed a high-concurrency reservation platform for multi-airport infrastructure, utilizing a **decoupled architecture** to handle real-time inventory synchronization.
- Implemented secure payment processing and scalable booking logic across diverse travel hubs, optimizing the backend for regional expansion and high-traffic seasonal loads.
- **Tech Stack:** Python (Django), JavaScript (Next.js), PostgreSQL, Cloud Computing.

SHEMS: Secure Energy Management System

Fall 2025

- Engineered a secure energy analytics panel for simulated IoT devices, focusing on high-integrity data management and manual transaction control.
- Bypassed standard ORM abstractions to implement **Raw SQL** and parameterized queries in PostgreSQL, achieving optimized performance for complex energy consumption analytics.
- **Tech Stack:** Python, PostgreSQL, Raw SQL, Django Security.

Nightwalkers: Safety-Focused Navigation PWA

Spring 2024

- Built a real-time navigation tool synthesizing **NYC Open Data** with user-submitted reports to generate dynamic safety heatmaps.
- Developed a community-driven forum and rating engine that directly influences the routing algorithm's safety scores to assist commuters in high-risk areas.
- **Tech Stack:** Next.js, Django, PWA, PostgreSQL, Cloud Computing

EDUCATION

M.S. in Computer Science

NYU Tandon School of Engineering

📅 Fall 2023 – present

BS in Computer and Information Science with Minor in Mathematics

SUNY College at Old Westbury

📅 September 2017 – May 2021 GPA : 3.93

SKILLS

Soft

Fluent Spanish Teamwork
Problem Solving

Technical

Python TypeScript HTML CSS
SQL JavaScript

TOOLS & FRAMEWORKS

Django NextJS Bootstrap
Pycharm VS Code Git & GitHub
Cloud Computing

AWARDS

- **Dean's List**
SUNY Old Westbury
📅 September 2017 – Spring 2021

AFFILIATIONS & ACTIVITIES

- **Honors College**
SUNY Old Westbury
📅 September 2017 – Spring 2021
- **Alianza Latina (Secretary)**
SUNY Old Westbury
📅 January 2018 – May 2019
 - Applied documentation skills during all meetings.
 - Kept concise and clear data of club events and attendees.
 - Implemented teamwork skills via collaborative conduction of general body meetings for the club.