

Luis Sanjuan-Cruz

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EDUCATION

Bachelor of Science in Computer Science

East Carolina University – Greenville, NC

May 2025

A.L.A.N.A. Scholar

Associates of Applied Science in Information Technology

May 2021

Wilson Community College – Wilson, NC

RELATED COURSEWORK

Algorithmic Problem Solving, Digital Logic Design, Discrete Structures, Operating System
Data Abstraction and Object-Oriented Data Structures, Computer Networks, Computer Architecture, Software
Engineering, Databases

PROJECTS

- [School Database](#)- Algorithmic Problem Solving
 - Technologies used: Visual Studio Code, GCC, C++
 - Developed a C++ program using Visual Studio Code and GCC to manage student data, calculate grade averages, and enable user data input and manipulation. This project highlighted strong algorithmic problem-solving skills and expertise in C++ development.
- [Twitter Simulator](#)- Algorithm and Data Structures
 - Technologies used: Visual Studios, C++
 - Collaborated with a team to develop a program in C++ for simulating a Twitter timeline. Implemented functionalities to add, delete, edit, and like tweets. Utilized data structures and algorithms to manage tweet entries effectively.
- [Caesar Cipher](#)- Data Abstraction and Object-Oriented Data Structures
 - Technologies used: Eclipse IDE, Java
 - Designed and implemented a Java program utilizing Eclipse IDE that employed the Caesar Cipher encryption technique. Demonstrated proficiency in data abstraction, object-oriented data structures, and problem-solving skills in Java programming.
- [Pitt County Voter Data Analysis](#)- Topics in Computer Science
 - Technologies used: Python, NumPy, Matplotlib, GeoPandas, Multiprocessing, Geospatial Data
 - Analyzed and visualized voter distribution across school districts, calculating voter density and percentage by party. Implemented geospatial data processing and parallel computing for efficient data handling.

SUMMARY of SKILLS

Programming languages: C++/C, Java, Python, HTML, CSS, SQL (PostgreSQL)

IDEs: Visual Studio, Visual Studio Code, PyCharm

Technologies: GitHub, Git, NumPy, Matplotlib, Geopandas, Geospatial Data, Confluence, Jira, MongoDB, SDLC

LEADERSHIP EXPERIENCE

Resident Advisor

East Carolina University, Campus Living

Aug 2022 – present

- Fostered a welcoming and inclusive residential community by organizing and participating in 5-10 diverse events and initiatives, ensuring that all residents felt valued and included
- Demonstrated the ability to handle emergencies and crises effectively by promptly following safety protocols, leading evacuation procedures, and ensuring the well-being of residents during critical situations
- Provided personalized mentorship and emotional support to 42 residents, assisting them in academic, personal, and social matters, contributing to their overall personal and academic success
- Successfully mediated and resolved conflicts between residents, utilizing strong interpersonal skills and a fair approach to create a harmonious living environment

ORGANIZATIONS

- **Member**, LSU, Latino Student Union | Sep 2023 - present
- **Member**, ACM, Association for Computer Machinery | Nov 2021 – present