


# NELSON TORRES

## SOFTWARE DEVELOPER

### CONTACT

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### PREVIOUS PROJECTS

Civilization Simulation in Python (CS5260 - AI)  
Image Processor for Android in Java (CS5253 - Parallel Programming)  
Snake in C++ for Arduino (Personal Project)  
Tkinter Personal Calendar using Google API in Python (Personal Project)

### EDUCATION

#### Master of Science

##### Vanderbilt University

2023-2024

3.74 GPA - Computer Science Major  
Notable Coursework : Artificial Intelligence, Machine Learning, Model-Based Development, Computer Networks, Parallel Programming

#### Bachelor of Science

##### Middle Tennessee State University

2018 - 2022

3.45 GPA - Computer Engineering & Applied Physics Double Major  
Notable Coursework : Discrete Structures and Algorithms, Computer Architecture, Circuit Design, Microprocessor Design, Programming Language Design, Assembly and Computer Design

### PROFILE

I am an MTSU Graduate with a B.S. in Computer Engineering & Applied Physics (Computer Science Concentration) & a French Minor. My expertise revolves around database management, ETL work, and SQL development in part due to the Vanderbilt University Data Analytics Bootcamp. I am currently working as a Full-Stack Software Engineer at IPro Systems & am also a student at Vanderbilt University working towards my Master's in Computer Science.

### WORK EXPERIENCE

#### Full Stack Software Engineer

IPro Systems Nov 2022 - Present

- Develop and debug backend APIs and frontend UI/UX changes
- Worked with Python, Boto3, Docker, Java, SQL, FastAPI, AGILE, Node.JS, Spark and AWS
- Notable projects : AWS Redshift DDL, Massive ETL of Tenant from legacy systems, Pytest coverage increases

#### Controls Engineer Intern

Automation NTH Aug 2022 - Nov 2022

- Went through the NTH University program as an Intern to prepare working as a Controls Engineer for the organization
- Programming PLCs, Designing schematics & electrical diagrams via AutoCAD, Constructing & wiring panels.

#### Contractor / Data Manager

J&N Carpentry May 2020 - Aug 2022

- Creating VBA scripts to automate document creation
- Managed SQL DB to handle sensitive information
- Managed employees and met with customers

#### Physics Tutor

MTSU Physics Department Aug 2021 - Aug 2022

- Helped students understand concepts thought throughout various courses ranging from Introductory Calc-Based Physics to Modern Physics