

Marcos Hernandez

Computer Science & Business Information Systems

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Education

Eastern Connecticut State University -Willimantic, CT Aug 2021 - May 2025
B.S. Computer Science | Minor: Data and Information Engineering GPA 3.5
B.A. Business Information Systems GPA 3.4

Relevant Courses

Business Intelligence & Data Solutions	Data Structures	Rapid IT Development(Agile)
Business Database Management(SQL)	Deep Learning*	Data Mining & Machine Learning
Data Engineering (FreeCodeCamp.org)*	Software Engineering*	AI & Machine Learning*

*Expected completion May 2025

Technical Skills

Programming & Scripting: Python, Java (OOP), SQL (Snowflake, MySQL), Bash/Zsh

Cloud & Automation: AWS (S3, EC2, Lambda-Beginner), Terraform (Beginner)

Data Analytics & Visualization: IBM SPSS, Tableau, Minitab, Excel, Weka

Development Tools: Jupyter Notebook, VS Code, Eclipse, Lucidchart, MS Visio, Git, Jira

Professional Skills: Leadership, written/verbal communication (English/Spanish), problem solving

Experience

ECSU IT Department – Network Admin Intern | Willimantic, CT. Aug 2024 - Nov 2024

- Assisted on a **\$7M network infrastructure upgrade**, completed **one week ahead of schedule**.
- Created a VOIP cube upgrade plan, achieving **<30s downtime** and increased redundancy.
- Recovered & optimized **\$100K+** worth of networking equipment, reducing costs.
- Upgraded fiber link cables and configured routers/switches, utilizing Cisco Prime Infrastructure to **automate software deployments** balancing real time IT support and large scale projects.

ECSU CSC Department – Teaching Assistant | Willimantic, CT. Jan 2024 - May 2024

Course: Introduction to Python and Machine Intelligence

- Supported **20+ students** in Python programming, SDLC principles, and data manipulation and visualization using **NumPy, Pandas, and Matplotlib**, resulting in a **100% class pass rate**.
- Guided the development of **kNN models** using Scikit-learn, focusing on classification, distance metrics, and model evaluation with confusion matrices.
- Led **data preprocessing** and **feature engineering** for ML tasks in Jupyter Notebook.

Dinosaurs Landscaping LLC - Founder | Savannah, GA. May 2017 - Present

- Provide landscaping services to **46 customers** in the Savannah area, managing two employees.

Projects

Data Engineering Pipelines using Notebooks in Snowflake

- Developed** and **orchestrated** ETL pipelines in Snowflake Notebooks using Python, SQL, and Snowpark to **ingest, transform, and analyze** structured citybike and weather data from S3.
- Automated** data workflows with Snowflake's Python Task DAG API and **optimized** deployments using CI/CD pipelines via GitHub Actions, Snowflake CLI, and Git.
- Integrated** Snowflake Marketplace datasets and **monitored** pipeline performance using Python logging and Snowsight dashboards.

Software Classification optimization using Machine Learning

- Developed and evaluated 7 classification models** (NB, MLP, kNN, SVM, LR, C4.5, RF100), achieving **82.45% peak AUC** using 10-run 5-fold cross-validation on telecom software datasets.
- Visualized **28+ model performance comparisons** in **Tableau**, demonstrating a **33% feature reduction** (42 to 28) preserved accuracy within 1.38%, optimizing computational efficiency.

Activities & Honors

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|---|--------------|
| Tableau Ambassador - Data Viz enthusiast group lead (20+ students) | 2024-Present |
| Alpha Alpha Alpha - National Honors Society for first generation students | 2024-Present |
| Upsilon Pi Epsilon - National Honors Society in Computing Sciences | 2023-Present |
| Mentor - TheDream.US mentorship program | 2022-Present |
| TheDream.US Opportunity Scholar - \$80,000 scholarship recipient | 2021-Present |
| President & Treasurer - ECSU-BIS Info. Tech. Students of America chapter | 2021-2023 |
| Valedictorian - Savannah Classical Academy, Savannah GA. | 2021 |