

Mauro A. Pérez Colón



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github.com/maucolon | [LinkedIn](#)

SUMMARY

Incoming Columbia University Mechanical Engineering graduate student with a background in computer science and physics. Experienced in data engineering, machine learning, Linux-based research systems, and embedded engineering projects. Interested in robotics, computational engineering, and data-driven systems.

WORK EXPERIENCE

Data Engineer Intern | EVERTEC, Inc.

San Juan, PR | Jun 2025 – Oct 2025

- Automated billing workflows and improved onboarding efficiency for new clients.
- Developed reporting solutions for real-time transaction monitoring using SQL, Excel, and Power BI.
- Supported Linux-based research computing infrastructure and HPC cluster operations.

Systems Administration Assistant | Department of Computer Science – Clark University

Worcester, MA | Aug 2023 – Dec 2024

- Supported Linux-based HPC cluster operations for academic and research computing workloads.
- Assisted students and faculty with job execution, troubleshooting, and systems support.
- Worked with Microway infrastructure, Slurm scheduling systems, and database administration tools.

Project Engineering Intern | Hilton Engineering

San Juan, PR | May 2024 – Aug 2024

- Assisted with commercial boiler installations, troubleshooting, and safety checks.
- Supported engineering field operations and maintenance site visits.
- Helped resolve installation issues to maintain project timelines.

EDUCATION

Columbia University

M.S. Mechanical Engineering | Expected May 2028

Clark University

B.S. Computer Science & Physics, Cum Laude | May 2026

- GPA: 3.60
- Honors: NEWMAC All-Academic and All-District Team (2023–2025) | Dean's List

PROJECTS

NEWMAC Match Predictor | [GITHUB](#)

- Built ML models using 25 years of soccer data to predict match outcomes.
- Implemented Decision Tree and Random Forest algorithms using Python.

Automated Water Distribution System | [GITHUB](#)

- Designed an automated water dispensing system using embedded hardware.
- Built data collection pipeline exporting operational data to CSV.

Off-Campus Housing Platform | [BITBUCKET](#)

- Developed backend database structure for student housing platform.
- Presented project proposal to university administration.

SKILLS

Python • Java • C++ • MATLAB • SQL • Linux • TensorFlow • PyTorch • CAD • Power BI • Arduino • Raspberry Pi • Docker