Rosnel Leyva-Cortes

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Education

- **Columbia University: Fu Foundation School of Engineering and Applied Science** — New York, NY
  B.S. Candidate in Electrical Engineering — *Sep 2022 - May 2026*
- **Deerfield Academy** — Deerfield, MA
  GPA: 90.6 (2nd Percentile) — *Sep 2018 - May 2022*

Skills Summary

- **Programming Languages**: Java, Objective-C, Python, Swift
- **Languages**: English, Spanish, Mandarin Chinese
- **Tools**: Fusion360, GIT, Matlab, XCode

Experience

- **Compuworld Computer Service Center** — North Bergen, NJ
  Electronics Repair Technician — *June 2021 - August 2021*
  - **General Repairs**: Worked with a variety of hardware from laptops, cellphones, to industrial machines that were brought in for servicing and repair.
- **Self Employed** — Hackensack, NJ
  Freelance iOS Developer — *May 2020 - May 2022*
  - **iOS App Contracting**: Worked with clients to build UI/UX and backend features for their iOS applications. Primarily offered services in Objective-C and Swift.
- **CODCO** — Deerfield, MA
  Computer Science Tutor — *May 2019-August 2020*
  - **Tutoring Responsibilities**:
    - Tutored middle school students 1-on-1 with a introductory computer science curriculum using java.
    - Tutored large group session for introductory computer science using python

Academic Projects

- **Girasol EEG**: Using an elementary electroencephalogram (EEG), I created a software library for using these devices to control the mouse cursor on Linux/MacOS systems with user's brainwaves.(May 2022)
- **FPGA Music Box** : Designed a module using Verilog and FPGAs to modify digital signals and output them as musical notes. (May 2022)
- **Police-Bot**: Programmed a classification model using tensorflow libraries to identify police officers by department in analysis of police brutality cases.(June 2020)
- **racpac**: Programmed a multi-tool software for network pen-testing written in python. It contains effective ping functions, hostname traceroute, and cloudflare detection.(May 2018)

Relevant Coursework

- Data Structures and Algorithms (Deerfield Academy 2021)
- Multivariable Calculus, Linear Algebra (Deerfield Academy 2022)
- Digital Logic and Computer Architecture (Deerfield Academy 2022)
- Intro to Artificial Intelligence w/ Python (Harvard University 2021)
- Intro to Electrical Engineering (Columbia University 2022)