

# Daniel Leal

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## Experience

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### Beckman Coulter Diagnostics

*Embedded Software Engineer Intern*

*June 2022 – Present*

- Develop over 15 complex firmware/embedded software designs in an Agile environment through Azure DevOps and low-level languages such as C and C++ and hands on microcontroller scripting using high-level languages (C#, Perl, and Python) for the R&D team bringing hematology instrument concepts to prototypes.

### Florida International University Research Laboratory

*Data Analyst*

*Jan 2022 – May 2022*

- Perform valuable research on classification and regression datasets to perform data analytics through active programming, quantitative reporting, statistical analysis, and more, to produce over 96% accuracy using Python and a variety of machine learning models.

### Miami-Dade County Public Schools

*Liaison Specialist*

*March 2022 – May 2022*

- Manage large data analytics / database of the entire center, automated emailing system, and managed district-wide website using a WMS to maintain an updated, friendly graphical user interface for online visiting families.

## Education

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**Florida International University** – Expected Graduation: Dec 2022

*Bachelor of Science in Computer Engineering*

- Concentrations: Artificial Intelligence and Embedded Software
- GPA: 3.72 out of 4.00

**Miami Dade College** – May 2020

*Associate Degree in Mathematics/Computer Science*

- GPA: 3.85 out of 4.00

## Skills

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Programming Languages: Python, C, C++, C#, Java, Perl, VHDL, CSS, HTML, MATLAB

Tools: Computer Vision, Scikit-learn, Selenium, Pandas, Hive, Anaconda, Git, GitHub, Azure DevOps

Software/Hardware: MS apps, Wolfram Mathematica, Xilinx Vivado, Multisim, Arduino, Raspberry PI, Zynq ARM Controllers, FPGA, NIOS II Controllers

Interests: Data Science, Artificial Intelligence, Embedded Systems, Software Development

Language Fluency: Spanish and English