

# Daniel Parra

Gainesville, FL | 786-810-7735



[dparra1@ufl.edu](mailto:dparra1@ufl.edu) | [linkedin.com/in/daniel-parra-143143217/](https://www.linkedin.com/in/daniel-parra-143143217/) | [github.com/DaniParr](https://github.com/DaniParr) | [daniparr.github.io/portfolio/](https://daniparr.github.io/portfolio/)

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## EDUCATION

University of Florida | Gainesville, FL

### Bachelor of Science in Computer Science

Expected Graduation: May 2026

- Undergraduate Research Scholar, UF Honor's Student
- **Relevant Coursework:** Advanced Programming Fundamentals, Discrete Structures, Data Structures
- **GPA:** 4.00

## WORK EXPERIENCE

Machine Intelligence Lab | **Software Engineer**

January 2023 – Present

- Implemented underwater image enhancement ML model in autonomous underwater vehicle software, improving obstacle detection with YOLOv5.
- Utilized ROS Python library for IoT system, enhancing raw video feeds for better feature recognition.

Mechanobiology Lab | **Research Assistant & Software Engineer**

August 2022 – Present

- Designed software to analyze lung cancer cell structures, highlighting post-cancer treatment protein concentration disparities.
- Developed computer vision-based cell structure analysis in MATLAB, producing detailed reports on cell strand characteristics.
- Conducted training for team members in gel substrate production, enabling efficient lung cancer cell cultivation and imaging.
- Presented research summaries at scholarly conferences.

Beck College Prep | **Web & Marketing Automation Developer**

December 2021 – August 2022

- Integrated CRM database with the company website using Monday API, streamlining workflow.
- Automated Twilio messaging for instant client communication through the CRM.
- Created in-house tools for templated student score reports in PDF format and email delivery.

## PROJECTS

Actin Preprocessing Functional AI | **Full Stack Developer**

August 2023

- Processed 100 training samples, training a multi-output CNN in TensorFlow to predict 13 parameters for image preprocessing, achieving 70% accuracy with  $<0.001$  loss.

Robotech 2023: Mind Mate | **Project Coordinator**

March 2022

- Conceptualized and managed the development of an AI Chatbot using psyche evaluative survey results to tailor AI conversations.

## SKILLS

Programming Languages: C++, Python, JavaScript, Swift

Frameworks & Libraries: TensorFlow, PyTorch, MATLAB, Node.js, SwiftUI, MapKit, CV, YOLOv5

Databases: MongoDB, Firebase

Tools & Platforms: Monday.com, Twilio

Languages: Spanish (Proficient), Portuguese (Elementary)