

Lucas Rodriguez

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EDUCATION

University of Florida Herbert Wertheim College of Engineering

May. 2027

B.S. in Computer Science; Minor in Statistics, Education Sciences

Gainesville, FL

Relevant Coursework: Data Structures & Algorithms, Operating Systems, Software Engineering, Databases I

GPA: 3.49

PROJECTS

Spark Rewards | *AWS, TypeScript, React*

Feb. 2025 – Present

- Developed an in-alpha SaaS loyalty platform startup designed for local customer engagement currently partnered with 3+ Gainesville businesses through a mobile app, online business portal, and public website
- Collaborated on design and implementation of frontend web interfaces and AWS infrastructure (DynamoDB/Aurora schemas, Route 53, Amplify+Cognito auth, API Gateway) to maintain and create key features
- Created a cross-account CodePipeline and React panel to monitor and assist internally-facing workflows, utilizing Lambdas to fetch data from 100+ app users for processes such as generating shop analytics and sending emails

MLB Data Analytics Model | *Python*

May 2025 – Present

- Developed a baseball statistical model using custom regression scripts to project success of player outcomes
- Designed data pipeline using web APIs ingesting 5M Statcast events into daily batter/pitcher tables to calculate individual metrics as well as environmental factors like park geography, live weather, and team trends
- Built webscraper that pulls live sportsbook odds leveraged with enriched player data to calculate model probabilities and implied edge percentages using regressed Poisson/Gamma logic
- Integrated GPT portfolio agent to analyze value in 10k player lines, averaging 6-8% ROI vs. closing odds

Theta Delta Chapter Website | *PostgreSQL, TypeScript, React*

Sep. 2025 – Present

- Organized a team overhaul to the Fraternity website to help direct executive operations and improve usability
- Planned and integrated Figma interfaces in React and backend systems such as PostgreSQL relational models to unify and analyze Chapter data, including applicants for a \$3000 outreach scholarship with 200+ applicants

Tkinter Autograder | *Python*

June 2025 – Aug. 2025

- Created lightweight <1000 line grading Tkinter GUI with custom test case input/output to simplify course grading
- Designed features to help cut grading time by 75% for student programs including automated runtime formatting, individualized debug logs, output difference analysis, and file support for helper/utility Python modules

EXPERIENCE & INVOLVEMENT

Vice President of House Management

Nov. 2024 – Present

The Chi Phi Fraternity

Gainesville, FL

- Elected Chapter House Manager at a 120+ member Greek fraternity centralized in an on-campus student house
- Structured execution of large-scale house operations with \$100k budget, including cleaning, kitchen management, and coordination of maintenance and supply logistics with vendors, fraternity staff, and University officials
- Led housing improvement projects as an executive board member through oversight of a brotherhood committee

Python Programming for Engineers Peer Mentor

June 2025 – Aug. 2025

University of Florida Department of Engineering Education

Gainesville, FL

- Oversaw a class of 30 students, leading in-person peer coding sections, evaluating homework submissions, holding office hours, and creating resources including problem sets and review guides
- Developed and standardized digital course materials by writing original LaTeX templates, Python assignment programs, and an interactive automatic grading assistant program to help evaluate 750 individual submissions

Student Senator

July 2024 – Oct. 2024

University of Florida Student Government

Gainesville, FL

- Represented the University of Florida student body in the Student Senate, which distributes an annual \$25 million Student Government budget across a variety of student-led organizations and events
- Co-authored legislation to support budgetary allocations for student wellness programs, including 24-hour libraries and improved GatorWell mental health resources for minority groups on campus

AWARDS

Herbert Wertheim College of Engineering Dean's List | *Spring 2025, Spring 2024, Fall 2023*

FIU High School Programming Competition | *Placed 1st out of 8 teams in Division 1*

Apr. 2023

UCF High School Programming Tournament | *Placed 9th out of 74 teams*

Mar. 2023