

# Lucas Rodriguez

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## EDUCATION

<b>University of Florida Herbert Wertheim College of Engineering</b> <i>B.S. in Computer Science; Minor in Statistics, Education Sciences</i> <b>Relevant Coursework:</b> Data Structures & Algorithms, Operating Systems, Software Engineering, Agile Project Management, Databases I <b>GPA:</b> 3.49	Gainesville, FL Aug. 2023 – Present
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## PROJECTS

<b>Spark Rewards</b>   AWS, TypeScript, React	Feb. 2025 – Present
<ul style="list-style-type: none"><li>Developing for an <i>in-alpha</i> 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</li><li>Contribute to the design and implementation of frontend web interfaces and AWS infrastructure (DynamoDB/Aurora schemas, Amplify+Cognito auth, API Gateway) to help maintain and create key features</li><li>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</li></ul>	
<b>MLB Data Analytics Model</b>   Python	May 2025 – Present
<ul style="list-style-type: none"><li>Developing a baseball statistical model using custom regression scripts to project success of player outcomes</li><li>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</li><li>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</li><li>Integrated GPT portfolio agent to analyze value in 10k+ player lines, averaging 6-8% ROI vs. closing odds</li></ul>	
<b>Theta Delta Chapter Website</b>   PostgreSQL, TypeScript, React	Sep. 2025 – Present
<ul style="list-style-type: none"><li>Organizing a team overhaul to the Fraternity website to help direct executive operations and improve usability</li><li>Implement conceptualized frontend React interfaces and backend systems such as PostgreSQL schemes to unify and analyze backend Chapter data, including applicants for a \$2500 outreach scholarship with 150+ applicants</li></ul>	
<b>Tkinter Autograder</b>   Python	June 2025 – Aug. 2025
<ul style="list-style-type: none"><li>Created an automated grading GUI using Tkinter with custom test case input/output to simplify course grading</li><li>Designed features to help efficiently assess student programs including runtime outcome formatting, individualized debug logs, output difference analysis, and file support for helper/utility Python modules</li></ul>	

## EXPERIENCE & INVOLVEMENT

<b>Vice President of House Management</b> <i>The Chi Phi Fraternity</i>	Nov. 2024 – Present Gainesville, FL
<ul style="list-style-type: none"><li>Elected Chapter House Manager for a 120+ member Greek fraternity centralized in an on-campus student house</li><li>Lead the execution of daily and large-scale house operations, including cleaning, house improvement efforts, and coordination of maintenance scheduling and supply logistics with vendors, fraternity staff, and University officials</li><li>Structure improvement projects as the leader of a committee planning the distribution of a \$6,000 annual budget</li></ul>	
<b>Python Programming for Engineers Peer Mentor</b> <i>University of Florida Department of Engineering Education</i>	June 2025 – Aug. 2025 Gainesville, FL
<ul style="list-style-type: none"><li>Oversaw a class of 30+ students, responsible for leading in-person peer coding sections, evaluating homework submissions, holding office hours, and creating resources including problem sets and review guides</li><li>Developed and standardized digital course materials by writing original LaTeX templates, Python assignment programs, and an interactive automatic grading assistant program to evaluate many students at once</li></ul>	
<b>Student Senator</b> <i>University of Florida Student Government</i>	July 2024 – Oct. 2024 Gainesville, FL
<ul style="list-style-type: none"><li>Represented the student body of UF in the Student Senate, which distributes an annual \$25 million Student Government budget across a variety of student-led organizations and events</li><li>Specifically co-authored legislation to support budgetary allocations for student wellness programs, including extended library hours and improved GatorWell mental health resources for minority groups on campus</li></ul>	

## AWARDS

<b>Herbert Wertheim College of Engineering Dean's List</b>   Spring 2025, Spring 2024, Fall 2023	
<b>FIU HSPC - Programming Competition</b>   Placed 1st out of 8 teams in Division 1	Apr. 2023
<b>UCF HSPT - Programming Competition</b>   Placed 9th out of 74 teams	Mar. 2023