

# Lucas Rodriguez

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## EDUCATION

### University of Florida Herbert Wertheim College of Engineering

Gainesville, FL

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

*Aug. 2023 – Present*

**Relevant Coursework:** Data Structures & Algorithms, Operating Systems, Software Engineering, Agile Project Management, Databases I

**GPA:** 3.49

## PROJECTS

### Spark Rewards | *AWS, TypeScript, React*

Feb. 2025 – *Present*

- Developing for 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
- 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
- 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*

- Developing 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*

- Organizing a team overhaul to the Fraternity website to help direct executive operations and improve usability
- 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

### Tkinter Autograder | *Python*

June 2025 – Aug. 2025

- Created an automated grading GUI using Tkinter with custom test case input/output to simplify course grading
- 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

## EXPERIENCE & INVOLVEMENT

### Vice President of House Management

Nov. 2024 – *Present*

*The Chi Phi Fraternity*

*Gainesville, FL*

- Elected Chapter House Manager for a 120+ member Greek fraternity centralized in an on-campus student house
- 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
- Structure improvement projects as the leader of a committee planning the distribution of a \$6,000 annual budget

### 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, responsible for 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 evaluate many students at once

### Student Senator

July 2024 – Oct. 2024

*University of Florida Student Government*

*Gainesville, FL*

- 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
- 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

## AWARDS

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

**FIU HSPC - Programming Competition** | *Placed 1st out of 8 teams in Division 1*

Apr. 2023

**UCF HSPT - Programming Competition** | *Placed 9th out of 74 teams*

Mar. 2023