

# 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>	May 2027 <i>Gainesville, FL</i>
<b>Relevant Coursework:</b> Data Structures & Algorithms, Operating Systems, Programming Language Concepts, Algorithm Abstraction & Design, Software Engineering, Databases I, Probability I, Linear Regression I	
<b>GPA:</b> 3.49	

## TECHNICAL SKILLS

**Languages:** Python, JavaScript, TypeScript, Java, C, C++, R, SQL, HTML/CSS

**Frameworks & Libraries:** React, Node.js, Express.js, FastAPI, Tailwind CSS

**Tools:** Git, AWS, CI/CD, GitHub Actions, Jest, PostgreSQL, MongoDB, VSCode, LaTeX, Pandas, NumPy, Matplotlib

## RELEVANT EXPERIENCE

<b>Python Programming for Engineers Peer Mentor</b> <i>University of Florida Department of Engineering Education</i>	June 2025 – Aug. 2025 <i>Gainesville, FL</i>
<ul style="list-style-type: none"><li>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</li><li>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</li></ul>	

## PROJECTS

<b>Spark Rewards</b>   AWS, TypeScript, React	Feb. 2025 – Present
<ul style="list-style-type: none"><li>Developed a SaaS loyalty platform startup designed for local customer engagement currently partnered with 3+ Gainesville businesses delivering POS rewards through a mobile app, online business portal, and public website</li><li>Collaborated on design of key features including frontend web interfaces and AWS cloud infrastructure that has been utilized in generation of \$1000+ in total order revenue from first-time download transactions</li><li>Created a cross-account CodePipeline and Cognito login panel to monitor and assist internal processes, deploying new Lambdas that access Aurora/DynamoDB data secured with IAM auth via API Gateway 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>Developed 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 real-time box data for 750 active roster players leveraged with historical statistics to calculate modeled probabilities and implied edge percentages using regressed Poisson/Gamma logic</li><li>Integrated LLM agent evaluating 10k player lines against JSON model data averaging 6–8% edge over public odds</li></ul>	

<b>Theta Delta Chapter Website</b>   PostgreSQL, TypeScript, React	Sep. 2025 – Present
<ul style="list-style-type: none"><li>Organized a team overhaul to the Fraternity website to help direct executive operations and improve usability</li><li>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</li></ul>	

<b>Tkinter Autograder</b>   Python	June 2025 – Aug. 2025
<ul style="list-style-type: none"><li>Created lightweight &lt;1000 line grading Tkinter GUI with custom test case input/output to simplify course grading</li><li>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</li></ul>	

## LEADERSHIP & INVOLVEMENT

<b>Vice President of House Management</b> <i>The Chi Phi Fraternity</i>	Nov. 2024 – Present <i>Gainesville, FL</i>
<ul style="list-style-type: none"><li>Elected Chapter House Manager at a 120+ member Greek fraternity centralized in an on-campus student house</li><li>Structured execution of all house operations with \$100k budget, including renovations, kitchen management, and coordination of maintenance and supply logistics with vendors, fraternity staff, and University officials</li></ul>	

<b>Student Senator</b> <i>University of Florida Student Government</i>	July 2024 – Oct. 2024 <i>Gainesville, FL</i>
<ul style="list-style-type: none"><li>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</li><li>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</li></ul>	