

Lucas Rodriguez

(786) 857-2659 | lucas.rodriguez@ufl.edu | linkedin.com/in/lucasrodrig | github.com/lucasrodr1010 | Miami, FL

EDUCATION

University of Florida Herbert Wertheim College of Engineering <i>B.S. in Computer Science; Minor in Statistics, Education Sciences</i> Relevant Coursework: Data Structures & Algorithms, Operating Systems, Programming Language Concepts, Algorithm Abstraction & Design, Software Engineering, Databases I, Probability I, Linear Regression I GPA: 3.49	May 2027 <i>Gainesville, FL</i>
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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

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

PROJECTS

Spark Rewards AWS, TypeScript, React	Feb. 2025
<ul style="list-style-type: none">Developed a SaaS loyalty platform startup designed for local customer engagement currently partnered with 5+ Gainesville businesses delivering POS rewards through a mobile app, online business portal, and public websiteCollaborated on design of key features including frontend web interfaces and AWS cloud infrastructure that has been utilized in generation of \$1500+ in total order revenue from first-time download transactionsCreated a cross-account CodePipeline and Cognito web panel to monitor data, provide alerts, and facilitate internal processes, deploying new Lambdas that access Aurora/DynamoDB tables secured with IAM auth via API Gateway to fetch data from 100+ app users for processes such as generating shop analytics and sending emails	

MLB Data Analytics Model Python	May 2025
<ul style="list-style-type: none">Developed a baseball statistical model using custom regression scripts to project success of player outcomesDesigned 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 trendsBuilt 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 logicIntegrated LLM agent evaluating 10k player lines against JSON model data averaging 6–8% edge over public odds	

Theta Delta Chapter Website PostgreSQL, TypeScript, React	Sep. 2025
<ul style="list-style-type: none">Organized a team overhaul to the Fraternity website to help direct executive operations and improve usabilityPlanned 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
<ul style="list-style-type: none">Created lightweight <1000 line grading Tkinter GUI with custom test case input/output to simplify course gradingDesigned 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	

LEADERSHIP & INVOLVEMENT

Vice President of House Management <i>The Chi Phi Fraternity</i>	Nov. 2024 <i>Gainesville, FL</i>
<ul style="list-style-type: none">Elected Chapter House Manager at a 120+ member Greek fraternity centralized in an on-campus student houseStructured 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	

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