

# 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, Programming Language Concepts, Algorithm Abstraction & Design, Software Engineering, Databases I, Probability I, Linear Regression I

**GPA:** 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

### 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

## PROJECTS

### Spark Rewards | AWS, TypeScript, React

Feb. 2025 – Present

- 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
- Collaborated on design of key features including frontend web interfaces and AWS infrastructure (DynamoDB/Aurora schemas, Route 53, Amplify+Cognito auth, API Gateway) across 6 pipeline stages in 3 accounts that has assisted in generation of \$1000+ in order revenue from first-time download transactions
- 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 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
- Integrated 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 – 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

## LEADERSHIP & 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 all house operations with \$100k budget, including improvement, kitchen management, and coordination of maintenance and supply logistics with vendors, fraternity staff, and University officials

### 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