

Nathalie Rodriguez Mendoza

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EDUCATION

Rice University

Houston, TX

Bachelor of Science in Computer Science | GPA: 3.92/4.00

Expected Graduation: May 2029

Relevant Coursework: Data Structures and Algorithms, Discrete Math, Linear Algebra, Probability and Statistics, Multivariable Calculus

TECHNICAL SKILLS

Programming Languages: Python, Java, JavaScript, TypeScript, HTML/CSS

Frameworks/Libraries: React, Next.js, scikit-learn, MapLibre GL

Databases/Tools: PostgreSQL, Supabase, Git, Figma

Certifications: MTA Python and Java, IT Specialist HTML/CSS and Data Analytics, IBM AI Fundamentals

Languages: English and Spanish

EXPERIENCE

Student Computing Consultant

May 2026 – Present

Rice University Technology Solutions & Services

Houston, TX

- Resolve 50+ weekly support issues for 8,000+ users by diagnosing problems through phone, tickets, and follow-ups
- Improve resolution efficiency by translating technical issues into clear instructions and escalating complex cases
- Strengthen Rice University software reliability by testing features, documenting defects, and validating fixes

Software Developer

May 2026 – August 2026

ITWomen | Client: Feeding South Florida

Houston, TX

- Shipped a full-stack geospatial platform adopted by FSF staff to guide outreach across 1,497 tracts in four counties
- Built a Python pipeline and geospatial algorithm to rank seven Census and USDA food-access indicators
- Partnered with Feeding South Florida staff to identify outreach challenges and iteratively refine platform features

Algorithms Instructor

May 2026 – July 2026

Tapia Center, Rice University

Houston, TX

- Translated Boolean logic and algorithm design into lessons enabling 720 campers to evaluate 1,000 mock applicants
- Achieved 100% on-time starts by coordinating daily transitions for 180 campers across counselors and instructors
- Led the program's largest cohort by mentoring 40 students, including a team selected as Best Overall

Undergraduate Research Assistant

January 2026 – May 2026

Rice University

Houston, TX

- Trained Random Forest models with scikit-learn to predict Curie temperatures of ferromagnetic materials
- Strengthened model reliability by cleaning, preprocessing, and analyzing 20,000 material samples with pandas
- Reduced prediction RMSE 40%, from 50K to 30K, through data cleaning and hyperparameter tuning

PROJECTS

Digital Media Commons Administration System | *TypeScript, React, Next.js, Supabase*

- Digitized 60 paper forms by developing a cloud-backed administration system with React and Supabase
- Cut check-in time 50%, from 10 to 5 minutes, by automating form submission, validation, and database storage
- Eliminated paper entries by integrating React forms with Supabase APIs for centralized record retrieval

LEADERSHIP & PROFESSIONAL DEVELOPMENT

Hanszen College

May 2026 – Present

Website Manager

Houston, TX

- Delegate development tasks and manage project timelines to ensure consistent site updates
- Increased website traffic by 30% by optimizing content, improving UX, and coordinating regular updates

Other Activities and Societies: RiceApps Head of Social Media, Society of Hispanic Professional Engineers Website Manager, Society of Women Engineers, CSters, HeadStart Fellowship, SEO First Year Academy