Lauren Richardson

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Computer Science and Applied Math Graduate

Education

B.S. in Applied Mathematics, Major GPA: 4.00   *May 2025*
B.S. in Computer Science (Concentrations: AI & Cybersecurity), Major GPA: 3.80
Florida Southern College, Lakeland, FL
- Graduated Summa Cum Laude with Honors
- Hollingsworth Full-Ride Scholarship
- President's Scholar Award (4.0 GPA recipient)

Employment

Special Event Coordinator / Barista *August 2023 - May 2025*

Andrew's Coffee LLC, Lakeland, Florida
- Collaborated with management to develop new products and marketing strategies leading to a 140% increase in daily orders.
- Organized and led community events in partnership with Florida Southern College organizations.

Department of Contemporary English Intern *May 2024 - August 2024*

Ibaraki Christian University, Ibaraki, Japan
- Led engagement initiatives that increased English lesson participation by 179% .
- Improved first-time student participation by 140% through strategic outreach and relationship building.
- Coordinated three cultural exchange events, enhancing cross-cultural communication and collaboration among over 100 students.

Research and Projects

Japanese Verb Conjugation Web App – Personal Project, *January 2025 – Present*
- Designed and developed a responsive single-page React application to help users practice Japanese verb conjugation through customizable vocabulary sets aligned with JLPT levels.
- Built interactive sidebar navigation and dynamic UI transitions using JavaScript and Tailwind CSS, with a focus on animation, layout responsiveness, and user accessibility.

Exoplanet Exploration with AI - Florida Southern College, *January 2024 - May 2025*
- Trained ten machine learning models and two ensemble models on lightcurve data collected from the Kepler Space Telescope to identify true exoplanet transit signals using Python.
- Achieved an average of 90% accuracy across models and found new evidence to support the promotion of seven exoplanet candidates to confirmed planet status.

NihonGO! - Florida Southern College, *August 2024 - December 2024*
- Led a team of three developers to design a web application for Japanese language learning, implementing user registration, real-time messaging, and a spaced repetition algorithm for flashcards.
- Coordinated project development using sprint-based planning, including task breakdowns, progress reviews, and iterative goal setting to ensure timely feature delivery.
- Tech stack included: Django, JavaScript, Python, and Tailwind CSS.

Second Language Acquisition - Ibaraki Christian University, *July 2024*
- Assisted an experiment conducted by university professors researching the effects of background music on conversation fluency for native Japanese speakers learning English.

Technical Skills

Programming Languages: Python, R, Java, C++, JavaScript
Frontend Development: React, Tailwind CSS, HTML
Backend Development: Django, Linux
Machine Learning & Data Science: Scikit-Learn, TensorFlow, Pandas, NumPy, SciPy, SQL
Statistical & Analytical Tools: SAS, Minitab
Version control: Git, GitHub

Languages

English (*Native level proficiency*)   Japanese (*Working Level*)   Spanish *(Conversational)*