

Raul Mendy

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🔄 [mendyraul](#) 💻 [mendyraul.github.io](#)

Summary

Skilled software engineer with proven leadership abilities and a strong academic background in Computer Science and Cybersecurity, including hands-on experience in developing advanced machine learning models and dynamic web applications.

Experience

Software Engineer | Florida Power and Lights

Aug '23 – Present

- Held team lead overseeing design, development, and deployment of cloud-based framework powering smart grid diagnostic system funneled through integrated chatbot.
- Deployed AI models for predictive analysis and NLP ensuring scalable and efficient data processing.

Research Associate | Florida Atlantic University

May '23 – Aug '23

- Developed LSF model and interface for multimodal data analysis for enhancing Prognostic Health Management of smart grid power transformers which achieved 98% fault classification accuracy.

Projects

Smart Wildlife Camera System | Skukuza Research Station, South Africa

Sep '23 – May '24

- Engineered a smart camera system using Raspberry Pi and OpenCV, enhancing wildlife monitoring efficiency through real-time image processing and optimized data capture. Developed a resilient data transmission protocol (HDTN) and solar-powered system, ensuring reliable and sustainable operation in remote conservation areas.

Flight Analysis Website

Aug '23 – Jan '24

- Deployed dynamic website and ETL pipeline to ingest flight data from Miami International Airport and automated data collection into a cloud environment. The live feed pulls from the created database and projects arriving and departing flights as well as numerous performance indicators.
<https://flight-tracker-mia-86993c1b25bf.herokuapp.com/>

Encryption/Decryption Website

Jan '23 – April '23

- Designed and built a user-friendly website enabling secure communication through private key encryption and implemented database for generating and managing ciphertexts, enhancing data privacy and confidentiality. <https://mendyraul.github.io/pages/encryption.html>

Skills

Programming Languages

Python, C, C++, Java, JavaScript, SQL, Ruby, HTML/CSS

Tools & Technologies

Git (GitHub, GitLab), Docker, MongoDB, Google Cloud, AWS Cloud, Microsoft Azure, Linux/Unix, Heroku, Postgres

Frameworks & Libraries

Flask, React, TensorFlow, PyTorch, OpenCV, Node.js, Cryptopp, Rails

Education

Florida Atlantic University

Boca Raton, FL

B.S. Computer Science (GPA 3.9), Minor in Cybersecurity

May 2024

- **Publications:** J. Accurso, **R. Mendy**, A. Torres, Y. Tang, **A ChatGPT-like Solution for Power Transformer Condition Monitoring.** (IEEE ICMLA 2023)
<https://ieeexplore.ieee.org/document/10459800>

Leadership

Argentina National Lacrosse Team

Buenos Aires, Argentina

Captain

May '18 - Present

- Played in the FIL World Lacrosse Championship in Netanya, Israel