Jacquelynn (Mika) Rose Harmon

mika.rose0369@gmail.com | https://harmon1713.github.io/portfolio/
+1(470) 836-5409 | +55(61)99813-1713

LANGUAGES English (native) | Spanish (fluent) | Portuguese (fluent) | Mandarin (beginner)

SKILLS

- Languages & Frameworks: Python, R, SQL/NoSQL, JavaScript, HTML/CSS, C++, MATLAB, LaTex, Dash, jQuery, Bootstrap, Flask, React, FastAPI, Helm
- Analysis/Visualization Tools: JupyterLab, Posit Cloud, Tableau, Excel, SPSS, MiniTab
- Databases: PostgreSQL, MySQL, MariaDB, MongoDB, Redis, DynamoDB, GitHub/Git LFS
- Software & Engineering: Terraform, LabVIEW, AutoDesk Inventor, AutoCAD

EDUCATION

- PhD Electrical Engineering | University of Brasilia | Began: 03/2025 | Exp. Grad. date: 12/2029
- MSIT Health Informatics | Middle Georgia State University | 2018 | 4.0
- BSE Biomedical Engineering & BA Spanish | Mercer University | 2016 | 3.4

COURSES AND CERTIFICATIONS

- Professional Certification in Data Science | Entity Academy & Woz U | 2023
- Engineering Technology Education I & II | GACE | 2022 | Passed-professional
- Leadership Development and Assessment Course | United States Army | 2016 | Top 15%

RESEARCH/PROJECTS

- AI-Based Diagnostic Tool for Alzheimer's Disease (Preparing manuscript for submission to IEEE)
  - Leading research on AI-driven early diagnostic methodologies for Alzheimer's disease, using a multiple-instance learning framework with coronal hippocampal MRI slices to improve diagnostic precision over single-instance models.
- Development of a Mobile Ankle Joint Attachment for the Universal Prosthesis 01/2015 – 05/2016
  - Designed an ankle joint attachment aimed at preventing muscular dystrophy in lower limb amputees, with fully-working CNC/3D printed prototypes to improve upon prosthetics previously used in Mercer on Mission trips to Vietnam.
  - Conducted gait analysis using Tekscan software, integrating multiple sensors into the prosthetic to visualize real-time motion on the wearer, with a microcontroller-based control system to enhance the prosthetic's adaptive capabilities.

LEADERSHIP & OUTREACH

- Fulbright Scholar Program in collaboration with the University of Georgia (Summer 2023)
  - Conducted workshops across multiple secondary schools and universities in various cities in Tanzania, training educators and students in robotics and programming.
  - Taught secondary school educators how to build and operate RoboRobo robots using Rogic software, ensuring they could effectively teach their students these skills.
  - Trained university students in working with VEX V5 Robotics and V5 Workcell, focusing on building and programming robots in Python and C++ with industrial applications.
- Head Softball Coach (Spring 2022)
- Missionary (Summer & Fall 2019)
- Solar Eclipse High-Altitude Balloon Research through NASA in collaboration with Mercer Robotics Club (Spring, Summer, & Fall 2017)
- Honduras Outreach, Inc in collaboration with Mercer University (Summer 2015)

AWARDS AND HONORS

- Fulbright Scholar
- Distinguished Military Graduate
- Tau Beta Pi (Engineering Honor Society)
- Phi Sigma Iota (Foreign Language Honor Society)
- Alpha Phi Omega (National Service Fraternity)

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WORK EXPERIENCE

- EnRisk Consulting, LLC | DATA SCIENTIST (INDEPENDENT CONTRACTOR) 2/2025 - present
  - Designed and deployed a fully automated, end-to-end pipeline for data validation, anomaly detection, and reproducible reporting frameworks to support operational decision-making in the oil and petroleum industry.
  - Built dynamic interactive dashboards and multilingual client reports to track instrument uptime, CRM participation, and error trends, delivering actionable insights to international clients.
- Westcliff University | ADJUNCT PROFESSOR (COLLEGE OF TECH. & ENGINEERING) 2/2023 - present
  - Graduate courses: Cloud Data Visualization, and Data in Artificial Intelligence & Machine Learning, Database Design & Management.
  - Undergraduate course: Foundations of Statistics (formerly: Introduction to Data Analytics)
- Middle GA State University | UNDERGRADUATE LECTURER (SCHOOL OF COMPUTING) 5/2023 – 5/2024
  - Intro to Computer Programming, Application Dev, Web Dev, Human-Computer Interaction, FinTech
  - Developed the Intro to Computer Programming course, transitioning the curriculum from C# to Python to align with industry standards and student needs.
  - Actively contributed to the Student Engagement Committee and facilitated the annual Academic Cybersecurity Seminar.
- Clayton County School District | SOFTWARE DEVELOPMENT TEACHER 10/2022 - 08/2023
  - Created state curriculum documents and faculty training materials for the GADOE 9-12 IST (Intro to Software Technology) course, covering Cloud Computing, Computer Science, Game Design, Internet of Things, Programming, Web and Digital Design, and Web Development.
- iFood & NuBank | DATA VISUALIZATION CONSULTANT (INDEPENDENT CONTRACTOR) 8/2019-2/2022
  - iFood: Collaborated with the cybersecurity team to document Purple Team processes and create technical reports for international partners.
  - NuBank: Built risk dashboards for market analysts, streamlining data interpretation for financial risk assessments.
  - Both: Developed standardized documentation and training guides to support data visualization tools, and presented detailed technical reports for international partners.
- Navicent Health Medical Center 10/2016-11/2018
  - ROBOTIC SURGERY RESEARCH ANALYST
    - Conducted in-vivo testing of various fluorescent liquids on lab rats to evaluate their efficacy and visibility during transvaginal mesh reconstructive surgery.
    - Operated the Da Vinci Surgical System, completing several units of robotic surgical training
    - Provided prescriptive analytics and developed detailed reports with data collected from reconstructive surgery projects, documenting methodologies and findings until project completion.
  - BIOMEDICAL EQUIPMENT TECHNICIAN II
    - Performed complex troubleshooting and debugging of critical hospital equipment in the Intensive Care Unit (ICU), Pediatric Intensive Care Unit (PICU), and Neonatal Intensive Care Unit (NNICU).
    - Developed custom executable software tool with a graphical user interface (GUI) for maintaining service logs, preventive maintenance schedules, and repair history.
    - Trained two interns, and facilitated their successful transition into permanent roles.
- US Army | Light-wheeled vehicle mechanic, SMP Cadet, ROTC AD Scholarship 08/2012-12/2016