Meaghan Ramlakhan

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EDUCATION

Rice University — Houston, TX
BS in Computer Science, minors in Data Science and Statistics; GPA: 3.8/4.0 — *Expected May 2026*
- Relevant Coursework: Introduction to Computational Thinking, Introduction to Program Design, Reasoning about Algorithms, Fundamentals of Computer Engineering, Introduction to Computer Systems
- Leadership & Organizations: Brown College Associate Recording Justice, Rice Women in Stem (WiS) High School mentor, HackRice 14 Public Relations and Registration Committee Member, Rice International Students' Association member

EXPERIENCE

Software Consultant, Waxley Graham LLC — January 2024 – Present
Remote — *London, UK*
- Collaborating with The Safeguarding Alliance to develop a software system using Amazon Web Services (AWS), to screen 100+ teaching applicants, and identify inconsistencies in applications and documents.
- Designed and implemented algorithms using AWS Lambda and other AWS services, aiming to increase red flag detection accuracy by 30%.

Live Instructor Technology Intern - RCEL ELITE Tech Program — May 2024 – July 2024
Rice University — *Houston, TX*
- Selected as one of 20 instructors, to design and refine canvas and course materials on machine learning and robotics, collaborating closely with Head Instructors to ensure high-quality content delivery.
- Led 20+ classroom sessions on cutting-edge machine learning and robotics topics, delivering interactive lessons, detailed feedback, and managing attendance and grading with accuracy.

Teaching Assistant, Rice University — August 2023 – Present
Reasoning about Algorithms, Algorithmic Thinking, Introduction to Computational Thinking — *Houston, TX*
- Conducted and facilitated weekly office hours for 500+ students across the three courses, providing detailed support and guidance in algorithms, data structures, and Python3.
- Responded promptly and effectively to 200+ inquiries on the class Piazza forum, utilizing a collaborative question-and-answer platform.
- Evaluated and meticulously graded 500+ assignments, quizzes, and exams, emphasizing proficiency in algorithms, data structures, and Python3.

Computer Hardware Engineer & Mission Assurance Specialist — May 2023 – August 2023
NASA L'SPACE Program - ASU — *Remote (Headquartered in Arizona)*
- Collaborated with 11 undergraduate students nationwide to conceptualize a cost-effective robotic mission, enhancing understanding of Ceres' geological attributes and habitability potential.
- Designed intricate Command and Data Handling subsystems, developed comprehensive software architecture and risk management strategies, and delivered detailed documentation and risk analysis triweekly, aligning with NASA's meticulous standards.

PROJECTS

RDT Ticketing Application | *MongoDB, HTML/CSS, Javascript, Node.Js* — January- April 2024
- Engaged as a full-stack Software Developer in a collaborative team at the student-run App Development club RiceApps, and developed an innovative ticketing platform for Rice Dance Theatre, leveraging advanced web technologies for a seamless user experience.

Analysing Reported FDA Adverse Events | *Python, Numpy, Pandas, Sci-Kit Learn* — January 2024
- Collaborated on a Data Science initiative with three other students to examine safety risks in consumer products using FDA's Adverse Event Reporting System data (CAERS), employing Python libraries like Pandas, NumPy, and Seaborn for in-depth analysis and visualization.

Concurrent Web Proxy | *C, Networking, Concurrency* — March 2024
- Developed a concurrent web proxy using threads to handle multiple client requests, implemented logging to track and analyze traffic patterns, and gained experience in network programming, HTTP protocol, concurrency, and synchronization.

TECHNICAL SKILLS

Languages: Python, Java, HTML/CSS, JavaScript, C
Frameworks: React, Node.js
Developer Tools: Git, VS Code, Visual Studio, PyCharm, IntelliJ, AWS (Lambda, API Gateway, S3, RDS, DynamoDB), Linux (Command Line)
Libraries: Pandas, NumPy, Matplotlib, Sci-Kit Learn
Certifications: Paycom Technology Summer Engagement Program (July 2023), Introduction to Programming using Java (Great Learning June 2023), The Data Science Course: Complete Data Science Bootcamp (Udemy May 2023)