

Mukul Ramesh

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EDUCATION

University of Chicago

Master in Applied Data Science

Chicago, IL
Dec 2026

Rutgers University School of Arts and Sciences

Bachelor of Arts in Computer Science & Data Science - Statistics

Minor in Cognitive Science

New Brunswick, NJ
May 2025
Magna Cum Laude

SKILLS

Languages: Python, R, SQL, C++, Java, C, JavaScript, HTML/CSS, Ruby

FrameWorks/Technologies: scikit-learn, numpy, pandas, keras, TensorFlow

Tools/Libraries: Git, Tableau, Docker, Apache Spark, PostGIS

CURRENT ROLE

University of Chicago, IT Services

Student A.I. Developer

Chicago, IL
10/2025 - Present

- Enhance AI chat front-end and build pilot applications for research and administrative partners.
- Integrate LLM APIs (OpenAI, Gemini), cloud platforms (GCP, AWS) on back-end infrastructure.
- Remediate vulnerabilities in codebases identified through code reviews, SAST/DAST scans.
- Implement/document secure practices for AI/ML applications to ensure IT policy compliance.

WORK EXPERIENCE

Isles Inc.

Software Development Intern

Trenton, NJ
06/2024 - 08/2024

- Geoenriched 488 businesses with Google+PostGIS for downstream data visualization tasks.
- Auto-labeled 1k street-view images, cut reporting cycle 50% (OpenCV-Python).
- Created real-time ARIMA air-quality dashboard, saving management team an estimated 6 hours per week.

Rutgers University Department of Spanish and Portuguese

Freelance Software Developer

New Brunswick, NJ
12/2022 - 02/2024

- Engineered bilingual-learning game in C++/Unity; Bayes A/B lifted 4-week retention 18%.
- Clustered via k-means + logistic regression, found three personas that guided adaptive difficulty.
- Owned Agile data-product lifecycle (sprint analytics, CI/CD), shipped weekly updates, zero downtime.

RESEARCH EXPERIENCE

[Interdisciplinary Research Team @ Rutgers](#)

Lab Researcher

Piscataway, NJ
08/2024 - 06/2025

- Boosted power 30% via counterbalanced mixed-effects studies (n=108).
- Meta-analyzed 8 papers (6 effects) to quantify priors for Bayesian models.
- 94% posterior coverage predicting task accuracy with hierarchical Bayes.

Bilingualism in Neurocognition Research Team @ Rutgers

Research Assistant

New Brunswick, NJ
05/2022 - 05/2023

- 64ch EEG data processing pipeline salvaged 33% more trials, 50% less prep time (MNE-Python).
- Single-trial Bayes models for 25 participants via scripted Brain Vision ERP/TF workflows.
- Delivered reproducible poster visualized in ggplot2, won invitation to Arestry research symposium.

VOLUNTEER EXPERIENCE

Hillsborough Public Library

Computer Literacy Workshop Leader

Hillsborough, NJ
06/2021 - 08/2021

- Designed evidence-based literacy curriculum; pre/post testing showed 35% skill gain (Cohen's d = 0.8).
- Auto-graded Python, 60% less time spent grading, with immediate feedback for students.
- Tracked 40 learners in normalized SQL schema, driving targeted interventions that lifted completion to 90%.