

Mukul Ramesh

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EDUCATION

University of Chicago <i>Master in Applied Data Science</i>	Chicago, IL Dec 2026
Rutgers University School of Arts and Sciences <i>Bachelor of Arts in Computer Science & Data Science - Statistics</i> <i>Minor in Cognitive Science</i>	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 <i>Student A.I. Developer</i>	Chicago, IL 10/2025 - Present
<ul style="list-style-type: none">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. <i>Software Development Intern</i>	Trenton, NJ 06/2024 - 08/2024
<ul style="list-style-type: none">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 <i>Freelance Software Developer</i>	New Brunswick, NJ 12/2022 - 02/2024
<ul style="list-style-type: none">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

<u>Interdisciplinary Research Team</u> @ Rutgers <i>Lab Researcher</i>	Piscataway, NJ 08/2024 - 06/2025
<ul style="list-style-type: none">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 <i>Research Assistant</i>	New Brunswick, NJ 05/2022 - 05/2023
<ul style="list-style-type: none">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 Aresty research symposium.	

VOLUNTEER EXPERIENCE

Hillsborough Public Library <i>Computer Literacy Workshop Leader</i>	Hillsborough, NJ 06/2021 - 08/2021
<ul style="list-style-type: none">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%.	