

RUBY YU

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EDUCATION

Georgia Institute of Technology <i>Bachelor of Science in Computer Science</i> Concentrations: AI/ML & Human–Computer Interaction GPA: 3.60/4.0	Atlanta, GA Aug 2022 – present (Expected May 2026)
Georgia Institute of Technology <i>Masters of Science in Computer Science</i>	Atlanta, GA Jan. 2026 – present (Expected May 2027)

EXPERIENCE

Research Assistant <i>Georgia Tech Technologies & International Development Lab</i>	Sept 2025 – present Atlanta, GA
<ul style="list-style-type: none">Contributing to AfriMedQA, the largest study on LLMs in African healthcare, benchmarking 20+ models on a 25K-question dataset across 32 clinical specialties in 15 African countriesConducting multilingual evaluations to assess model reliability across colonial and indigenous African languages in low-resource medical contextsInvestigating failure modes and linguistic disparity patterns to support safer and more responsible deployment of medical AI in real-world settings	
Data Scientist Intern <i>EM-Powerhouse</i>	May 2025 – Aug 2025 Waco, TX
<ul style="list-style-type: none">Built an automated pipeline to replace manual review of 10K+ student application records per cycle for undergraduate admission, enabling data-driven recruitment and funding strategiesEngineered an “academic readiness index” by integrating quantitative application features with LLM-based analysis of qualitative attributesBuilt feature engineering workflows and structured datasets to enable predictive modeling and evaluation of student enrollment outcomes	
Undergraduate Researcher <i>Georgia Tech Automated Algorithm Design Group</i>	Jan 2024 – May 2025 Atlanta, GA
<ul style="list-style-type: none">Integrated an LLM-guided evolutionary framework to automate optimization of PointNet++ and Point Transformer 3D point cloud classification modelsRefactored a hardcoded pipeline into a YAML-driven modular design, enabling automatic model detection and making it reusable for new architectures with only a one-line configuration change	
Research Intern <i>Shanghai Jiao Tong University X-LANCE Lab</i>	July 2024 – Aug 2024 Shanghai, China
<ul style="list-style-type: none">Researched early Alzheimer’s detection; tested convolutional neural network (CNN) models to analyze patient speech patternsProcessed and analyzed speech audio recordings to identify MFCC acoustic features indicative of cognitive declineExplored early-stage signal patterns as potential inputs for future clinical diagnostic models	

RELEVANT COURSEWORK

Machine Learning, Artificial Intelligence, Computer Vision, Design & Analysis of Algorithms, Computer Graphics, Information Visualization, Discrete Mathematics, Probability & Statistics, Automata & Complexity

TECHNICAL SKILLS

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

Technologies: PyTorch, TensorFlow, NumPy, pandas, scikit-learn, Git, D3.js, Node.js, Tableau