

HUSSEIN RAJABU

Houston, Texas | 832-807-5147 | hrajabu@outlook.com | LinkedIn: linkedin.com/in/hussein-rajabu

PROFESSIONAL SUMMARY

M.S. Electrical and Computer Engineering graduate with 8 years of experience, specializing in Artificial Intelligence, Machine Learning, Interpretable AI, and Neural Rendering Systems, with prior industry experience as a Full-Stack Software Engineer. Experienced in developing scalable software systems, research-driven machine learning architectures, and experimental AI pipelines using PyTorch, JAX, Python, and modern backend technologies. Built and evaluated interpretable multi-task symbolic regression models, neural rendering optimization systems, and neuro-symbolic AI research frameworks. Combines strong software engineering foundations with advanced research experience in deep learning, symbolic AI, computer vision, and high-performance AI experimentation.

EDUCATION

Prairie View A&M University — M.S. in Electrical and Computer Engineering Prairie View, TX | August 2024 – May 2026

University of Houston — B.S. in Computer Science Houston, TX | January 2020 – December 2021

Houston Community College — A.S. in Computer and Information Sciences Houston, TX | August 2016 – May 2019

SKILLS

- **Programming Language:** Python, C#, C++, Java, PHP, Go, Ruby, JavaScript, TypeScript
- **Machine Learning & AI:** PyTorch, JAX, CUDA, Scikit-learn, Neural Networks, Deep Learning, Symbolic Regression, Neuro-Symbolic AI, Representation Learning, Interpretable AI, Multi-task Learning, Computer Vision, Neural Rendering, 3D Reconstruction
- **Research & Data:** NumPy, Pandas, SymPy, Data Analysis, Experimental Pipelines, Model Evaluation, Statistical Analysis, Performance Benchmarking, Hyperparameter Optimization
- **Full Stack Development:** Spring Boot, ASP.NET Core, FastAPI, Node.js, REST APIs, Microservices, API Design & Integration
- **Frontend:** Angular, React, Svelte, Angular Material, Bootstrap, jQuery
- **Databases & Tools:** MySQL, MS SQL Server, PostgreSQL, Oracle (PL/SQL), NoSQL (MongoDB)
- **Cloud & DevOps:** Azure DevOps, Docker, Git, GitHub, Linux, CI/CD, Postman
- **Tools & IDEs:** Visual Studio, Jupyter Notebook

EXPERIENCE

Graduate Assistant Researcher — Prairie View A&M University Houston, TX | January 2025 – May 2026

- Facilitated research initiatives focused on developing data-driven solutions and analytical methodologies.
- Orchestrated experimental workflows including execution and evaluation across multiple research areas.
- Engaged with faculty members and research teams to explore emerging technologies and improve research outcomes.
- Examined large datasets to identify patterns and generate insights for decision-making and research objectives.
- Produced reports, presentations, visualizations, and documentation for academic publications and stakeholders.
- Assessed benchmarking studies to compare methodologies and measure effectiveness of proposed approaches.

Software Engineer — Itlize Global LLC

Houston, TX | March 2022 – November 2024

- Engineered enterprise software solutions for clients across multiple industries to support business operations.
- Architected scalable business applications to improve efficiency, performance, and user experience.
- Coordinated with cross-functional teams to deliver project requirements and ensure successful execution.
- Implemented Agile development practices to enhance planning, collaboration, and delivery processes.
- Translated business requirements into technical solutions and system improvements.
- Documented system processes and maintained enterprise software platforms for long-term stability.

Software Engineer (Contract) — Constellation Houston,

TX | August 2022 – June 2023

- Directed enterprise application modernization efforts during a large-scale organizational transformation initiative.
- Integrated business systems to improve functionality and support operational requirements.
- Executed software implementation, testing, and maintenance activities to ensure reliability and quality.
- Optimized internal systems and business processes through technology improvements.
- Coordinated project tasks, resolved issues, and supported documentation for delivery and maintenance.
- Delivered project milestones in collaboration with stakeholders within defined timelines.

Software Engineer — PlainsCapital Bank Houston,

TX | July 2019 – June 2022

- Built a loan processing platform to improve workflow efficiency and business operations.
- Liaised with stakeholders and engineering teams to deliver scalable solutions aligned with business goals.
- Designed application features to improve usability, validation, and system reliability.
- Integrated frontend and backend services to streamline business processes and automation.
- Performed testing and debugging activities to maintain application quality and performance.