

# Jason Uwaeze

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## Education

Doctor of Philosophy in Computer Science  
*Rice University*  
Bachelors of Science in Computer Science  
*The University of Texas at Dallas*

Expected: May 2026  
Houston, Texas  
Dec 2021  
Richardson, Texas

## Experience

- AI/ML Research Intern at *Idaho National Laboratory, Idaho Falls, ID* June 2024 – Present
- Leveraged 2D and 3D patched-based CNN models for 3D reconstruction and semantic segmentation of irradiated nuclear fuel, achieving IoU and DSC scores greater than 0.74.
- Graduate Researcher at *Rice University, Houston, TX* Aug 2022 – Present
- Developed an Attention-based deep learning approach to future stroke prediction in patients with CF-LVAD implantation using both tabular and imaging data.
  - Evaluated the sensitivity of VLMs to corresponding text embeddings utilizing CLIP and ViT
  - Leveraged deep learning techniques to identify and segment active MS lesions.
  - Hands-on experience with HPC, Python, Pytorch, Tensorflow, Computer Vision, NLP, Transformers, Vision Language Models (VLM), GANs and Diffusion Probabilistic Models.
- AI Research Intern at *IBM Yorktown, New York* May 2022 – Aug 2022
- Developed a systematic way for evaluating Large Language Models for fairness and bias. Created Workbench where developers can run prompts that will run against a fill-mask task, fine-tune their models against a new dataset.
- Software Developer at *PwC Dallas, Texas* Jan 2022 – May 2022
- Used Azure technologies to manipulate and move client data. Hands on experience with Azure technologies, Databricks platform, and creating data pipelines.
- Siemens Undergraduate research Scholar at *UT Dallas Richardson, Texas* Aug 2021 – Dec 2021
- Research with Dr. Kanad Basu and PhD Candidate Shamik Kundu on Effective In-field Testing and Diagnosis for Functional Safety. Hands on Experience with Deep Neural Networks.
- Undergraduate Researcher at *UT Dallas Richardson, Texas.* Mar 2021 – Dec 2021
- NLP Research with Professor Ng and PhD Candidate Hideo Kobayashi on Bridging Resolution. Hands on experience developing NLP models and programming in python.
- Extreme Blue Technical Intern at *IBM Austin, Texas* May 2021 - Aug 2021
- Developed a Performance Evaluation System that improves the efficiency of IBM's hardware verification lifecycle. Utilized MongoDB, Python, and profiling tools such as callgrind for evaluating performance. Hands on experience with Javascript, NodeJS, and REST services.
- Machine Learning Intern at *Infosys Bengaluru, India* Jun 2020 – Jul 2020
- Developed a semantic search application that takes 75k sentences, utilizes Microsoft's SPTAG python library for fast approximate nearest neighbor searches, and Google's BERT NLP Model. Hands on Machine Learning(NLP) experience with python, git, linux, and jupyter notebook.

## Awards and Organizations

National GEM Consortium Doctorate Fellowship	May 2022 - Present
Toyota Research Institute (TRI) Master's Fellowship	April 2022 – April 2023
Semiconductor Research Corp Research Scholarship	Jul 2021 – Jan 2022
National Society of Black Engineers Professional Scholarship	Jul 2021 – Jan 2022
All Texas Academic Team 2019 (Selected)	Feb 2019 – Aug 2020