

EDUCATION

Georgia Institute of Technology <i>Master of Science in Computer Science</i>	<i>August 2024 - Present</i>
The University of Texas at Dallas (Summa Cum Laude) <i>Bachelor of Science in Computer Science: GPA 4.0/4.0, Minor in Spanish</i>	<i>August 2020 - May 2023</i>

SKILLS

Certifications: Microsoft Azure AI-900
Programming Languages: Python, Java, R, JavaScript, TypeScript, Unix.
AI/ML: LLMs (OpenAI, Anthropic, HF), Transformers, PyTorch, TensorFlow, Scikit-Learn, MLFlow, OpenCV, XGBoost
Cloud/DevOps: Azure, Kubernetes, Docker, Grafana, Databricks, FastAPI
Data: SQL, MongoDB, Teradata, PostgreSQL
Frameworks: React, NextJS, Prisma

WORK

American Airlines - Generative AI Team <i>Engineer · Python, Azure, OpenAI, FastAPI, Kubernetes, Docker</i>	Fort Worth, TX <i>July 2025 - Present</i>
<ul style="list-style-type: none">Used FastAPI, Kubernetes, and Python to build and deploy scalable GenAI applications at enterprise scale.Engineered response generation on a generative AI system that reduced customer support load by 12%.Built and pioneered the use of agents and agentic workflows with OpenAI to deliver LLM-as-a-judge frameworks.Increased development throughput by 15% by utilizing ephemerals, DevOps pipelines, and Kubernetes.Introduced cutting-edge GenAI research such as GEPA to the enterprise initiatives through learning sessions.Reduced production issues by 10% by designing a modular, automated integrated evals that tested generation reliability.	
American Airlines - ML and Data Platform <i>Associate Software Developer · Python, Azure, Kubernetes, Docker, MLFlow, Grafana</i>	Fort Worth, TX <i>July 2024 - June 2025</i>
<ul style="list-style-type: none">Developed an Azure Key Vaults automation increasing ML development by 10% for all stakeholders.Enabled ML teams to deploy Streamlit apps 90% faster by building a self-service automation.Increased monitoring by 80% by building an observability automation and dashboard on Grafana to track compute usage on Azure.Saved the enterprise \$5,000/year in compute savings by optimizing unproductive compute within Azure.	
American Airlines - Operations Research <i>Associate Software Developer · Python, Java, Azure ML, Databricks, Teradata, SQL</i>	Fort Worth, TX <i>June 2023 - July 2024</i>
<ul style="list-style-type: none">Developed and deployed NLP and LLM based models on Azure for feedback analytics with a 90% accuracy.Deployed a NLP and LLM based model on Databricks that increased business unit's action rate by 53%.Trained a BERT based topic modelling model on 10k+ rows of data to generate 40 actionable and unique topics for business.Led the refactoring and modernization of a commercial, legacy ML application that reduced development time by 30%.Worked in developing ML-based pattern recognition systems that helped improved accountability metrics.	

RESEARCH (AI/ML)

Programming Assistant for Exception Handling with CodeBERT <i>ICSE'24 Research Publication · Research Professor: Tien Nguyen</i>	<i>Jan 2024</i>
<ul style="list-style-type: none">Proposed Neurex, an exception-handling recommender that learns from complete code, accepts a given Java code snippet, and gives recommendations about exception handling.	
Neural Exception Handling Recommender <i>ICSE'24 Poster · Research Professor: Tien Nguyen</i>	<i>Jan 2024</i>
<ul style="list-style-type: none">Worked on a multi-tasking large language model that recommends what exception to give for a code snippet.	
CS Research Lab for Professor Tien Nguyen <i>Research Assistant · Python, Linux, MUDetect, Tmux, Maven, Ant, Java, Docker</i>	University of Texas at Dallas, Richardson, TX <i>Jan 2023 - May 2023</i>
<ul style="list-style-type: none">Involved in setting up the experiments for adaptive pre-training for CodeBERT via span-based masked language modeling to enforce implicit learning of API-Usages.Involved in pre-training the CodeBERT with masked language modeling and replaced token prediction.Contributed to the research project on recovering API Fully-Qualified Names in Statically Typed Languages using Deep Learning	