

Mohammed Junaid Anwar Qader

☎ +1 (437) 326-3551 | ✉ [Mail](#) | [in LinkedIn](#) | [Github](#) | [Website](#)

Education

University of Toronto <i>Master of Science in Applied Computing (MScAC) Concentration: Artificial Intelligence</i>	Sept. 2025 - Dec. 2026 (expected)
National Institute of Technology, Warangal <i>Bachelor of Technology, Computer Science and Engineering</i>	CGPA: 9/10 2021 - 2025

Industry Experience

Wells Fargo <i>SDE Intern</i>	May-July 2024 <i>Chennai, India</i>
- Developed a secure chatbot extension for VS Code and IntelliJ IDEA, integrating NLP with Confluence API for real-time, developer query resolution and a Harness API extension to display logs and pipeline states within IDEs, reducing context switching and improving developer productivity by 40%. - Leveraged JavaScript, VS Code API, Java AWT Swing, NLTK, and SpaCy while ensuring compliance with Wells Fargo's security protocols through collaboration with cross-functional teams.	

Research Experience

Molecular Descriptors in Drug Design	Aug 2024 – Mar 2025
- Developed CathepsinDL, a deep learning framework using BindingDB and ChEMBL data to predict Cathepsins B, S, D, and K inhibitor potency by IC₅₀ ranges for early-stage drug screening. - Applied feature elimination techniques to obtain an optimal descriptor set and trained 1D CNN models with SMOTE to address class imbalance, achieving 97% accuracy in identifying potent inhibitors.	
Deep Learning and IoT-based Mosquito Wingbeat Event Detection	Jan-Apr 2024
- Preprocessed mosquito wingbeat audio into log-mel spectrograms with PCEN and augmentation for robustness in noisy conditions. - Trained a custom CNN-TCN model with attention, and optimized it for real-time inference on edge IoT devices, achieving over 90% accuracy in mosquito wingbeat audio event detection. - Seervi, A., Mulani, N., Anwar, M. J., & Venkanna, U. (2025). IoT-Enabled Intelligent Framework for Real-Time Mosquito Detection and Monitoring. SN Computer Science, 6(5), 484.	

Projects

SLM-nanoGPT	Sep 2025
<i>Recreated a GPT-2-style model trained on the TinyStories dataset to explore transformer internals and LLM training.</i> Implemented a small-scale LLM from scratch, gaining hands-on experience with tokenization, dataset preparation, and pretraining. Currently focused on learning more about advanced LLM architectures and techniques.	
MLOps Weather Predictor	Sep 2025
<i>End-to-end weather prediction pipeline for Toronto, forecasting weather codes using historical time-series data.</i> Implemented a full MLOps pipeline with automated retraining, deployment, and monitoring to maintain production-ready performance. Engineered time-series features from historical weather data and trained an XGBoost model to predict weather codes.	
Caption Crafter	July 2024
<i>Generates catchy captions for Instagram posts</i> Developed an end to end deep learning pipeline using DenseNet201 + LSTM for image captioning and integrated Groq Cloud API for dynamic hashtags.	

Skills & Interests

Programming Languages/ Frameworks: C++, Java, Python, JavaScript, Django, React, PyTorch
Skills: Git, AWS, Docker
Interests: LLMs, RAG, Agentic Systems, Computer Vision, Natural Language Processing
Competitive Programming: ICPC Asia West regionalists.

Coursework

Computational Imaging, Neural Networks and Deep Learning, Visual and Mobile Computing, AI for drug discovery