

Syed Abdullah Imam

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EDUCATION

University of North Texas

Honors Bachelor of Science in Mathematics and Computer Science

GPA: 3.8/4.0

May 2027

Dallas, TX

EXPERIENCE

Software Engineering Intern

Ayoka Systems

May 2026 – Aug 2026

Dallas, TX

- Developed production grade software using PHP and Laravel, building maintainable backend features, RESTful APIs, and application logic for internal and client facing systems.
- Containerized and deployed services using Docker and Kubernetes, supporting API deployment, environment configuration, and reliable production workflows.

Senior Equity Research Analyst

Student Investment Group, UNT

Sep 2025 – Present

Denton, TX

- Developed Python based financial models and data analysis pipelines integrating Bloomberg API and Excel datasets to support investment decisions for a \$1.5M portfolio.
- Built automated data processing and visualization workflows in Python (pandas, NumPy, matplotlib) to analyze market data, streamline valuation updates, and improve research efficiency across portfolio holdings.

VR/AR Research Intern

xREZ Art + Science Lab

Sep 2024 – Present

Denton, TX

- Built cross-platform AR/VR experiences in Unity (C#) with NASA collaboration, integrating biosensor data via BrainFlow and implementing responsive UIs using MRTK and OpenXR.
- Integrated BrainFlow C# bindings in Unity to process real time EEG biosignal streams and implement signal detection pipelines for adaptive AR/VR interaction.

Machine Learning Research Assistant

Computing Research Association (CRA) REU, UNT

Aug 2024 – Dec 2024

Denton, TX

- Initiated and collaboratively led research on the robustness and adversarial resilience of deep learning models for lane detection (CLRNet) as part of the CRA REU program.
- Designed perturbation based robustness tests by simulating image degradations (Gaussian blur, motion blur) and benchmarking CLRNet lane detection performance under corrupted visual inputs.

AI/ML Research Assistant

Biomedical Engineering Department, UNT

Sep 2023 – Present

Denton, TX

- Developed AI driven autonomous navigation and motion planning for Boston Dynamics Spot using LiDAR perception, SLAM localization, and ML models for activity recognition and fall detection.
- Implemented Python automation pipelines using the Boston Dynamics SDK and PyAutoGUI for macro based event control, enabling scripted robot movement, trigger-based actions, and rapid task prototyping.

PROJECTS

Campus Marketplace Web App (www.dormpapi.com) (Flask, MongoDB, AWS, Azure, Cloudflare)

- Developed a full stack marketplace web application serving 500+ users using Flask, MongoDB, and RESTful APIs, deploying scalable cloud infrastructure with AWS S3, Azure, and Cloudflare with CI/CD pipelines for automated deployment and reliability.

Handwritten Digits Classifier Neural Network (github.com/Malanaa/akira) (Python, NumPy, Pandas, Matplotlib)

- Built a multi-layer neural network from scratch (Python/NumPy) for MNIST digit classification, implementing custom layers, activations, and manual forward/backward propagation without external ML libraries.

CERTIFICATIONS & PUBLICATIONS

ISC2 Certified in Cybersecurity (CC), ISC2

A Robotic Dog Payload for the Elderly, IMECE 2024

SKILLS

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

Frameworks & Libraries: Flask, Django, React, Node, Expo, Tailwind CSS, TensorFlow, OpenCV, NumPy

Cloud & DevOps: AWS, Azure, GCP, Docker, Kubernetes, Git, GitHub, CI/CD, Linux, Cloudflare

Databases & Tools: MongoDB, PostgreSQL, REST APIs, Microservices, Distributed Systems, Unity, BrainFlow