

# Ahmad Dommar Hijazi

(337) 693-6843 | ahmad.D.hijazi@gmail.com | U.S. Citizen | linkedin.com/in/dommarhijazi | github.com/ahmxdhijazi

## EDUCATION

**Louisiana State University (LSU), Baton Rouge, LA**  
*B.S. Computer Science, Software Engineering*

**Dec 2026**  
*GPA: 3.85*

## EXPERIENCE

**Undergraduate Research Assistant – Machine Learning & AI**  
*LSU Vision, Baton Rouge, LA*

**Sep 2025 – Present**

- Developed a platform to capture visual inputs, converting videos to Random Dot Stereograms for human-AI vision analysis.
- Applied data analysis to participant survey results to evaluate noise thresholds for a foolproof AI detection tool targeting 90% accuracy.
- Co-authoring a research paper on perceptual differences in video recognition under the guidance of Dr. Dong Lao.

**SOC Analyst**

**Apr 2025 – Present**

*TigerSOC, Baton Rouge, LA*

- Identified and neutralized threats for 10 tenants daily by leveraging SIEM tools for in-depth event analysis.
- Analyze system logs to identify indicators of compromise (IoCs) and document all incident response actions.
- Managed and triaged 100+ alerts by optimizing and clarifying incident response and escalation documentation.

**Information Technology Intern**

**May 2024 – Aug 2024**

*Direct Scaffold Supply, Houston, TX*

- Troubleshoot and resolved hardware and software tickets for 75+ employees, ensuring operational uptime.
- Utilized advanced Excel functions for a data migration project to validate information and reduce errors.
- Automated application installation on new laptops with a PowerShell script, improving setup efficiency by 80%.
- Created user guides for software applications. Guides were distributed throughout the company to ensure efficiency and smooth workflow.

## PROJECTS

**Flourish AI-Powered Gardening App - 1<sup>st</sup> Place Hackathon Winner**  
*Full Stack Developer | Flutter, Python, Firebase, Roboflow*

**Nov 2025**

- Architected a full-stack, AI-driven pipeline using a Python (Flask) REST API to serve dual Roboflow CV models (for growth and disease detection), calculate plant health, and suggest remedies.
- Developed a sleek, stateful Flutter UI with complex gamification logic, implementing a daily streak, friends list, and points-based leaderboard tied to Cloud Firestore.
- Implemented Firebase backend, including secure Auth, Firestore for all real-time app data, and image storage.

**Full Stack Digit Recognizer**

**Nov 2025**

*Full-Stack Developer | Python, PyTorch, Flask, JavaScript, HTML/CSS*

- Engineered a full-stack web application for 10-class digit recognition, deploying custom-built PyTorch models trained on the MNIST dataset via a Flask REST API.
- Implemented a JavaScript frontend to capture user drawings, processing them into 28x28 normalized tensors via a Base64 data pipeline for real-time prediction.
- Deployed a frontend A/B toggle to compare 2 distinct models (Linear Classifier and CNN), actively demonstrating the CNN's superior accuracy (97.9% vs. 84.1%) and translation-invariance on live user input.

## SKILLS

**Programming/Frameworks:** Python | Java | JavaScript | HTML/CSS | React | Tailwind CSS | Flutter | Flask | Firebase  
**Data Science/ML:** Scikit-learn | NumPy | Pandas | PyTorch | OpenCV | Matplotlib  
**Software:** GitHub | Visual Studio Code | Jupyter Notebook | Splunk | Microsoft Excel | PowerShell | VMWare  
**Certifications:** Machine Learning with Python (IBM) | AWS Certified Developer Associate DVA-C02 (In Progress)