

Humaiz Akbar

✉ ha645@drexel.edu | 🌐 humaizakbar.com | 🌐 [Humaiz-Akbar](https://github.com/Humaiz-Akbar) | [in humaiz-akbar](https://www.linkedin.com/in/humaiz-akbar)

Education

Drexel University

Bachelor of Science in Software Engineering
Minor in Data Science

Anticipated Graduation: June 2025

Philadelphia, PA

Work Experience

FS Investments – QA Engineer (Co-op & Part-Time)

Apr. 2024 – Mar. 2025

Data Engineering

Philadelphia, PA

- Automated the discovery of AWS resources related to a lambda function by analyzing API calls in CloudTrail (e.g., S3, AppFlow, DynamoDB) and leveraged CloudFormation to deploy any missing resources, consolidated them into cohesive applications.
- Planned and executed the integration of regression tests with AWS Inspector to automate identifying security vulnerabilities and performance issues in AWS Lambda functions, ensuring reliability across environments.
- Utilized the Testim tool from Tricentis to create and automate Salesforce workflows, ensuring functionality and stability across environments post updates.

Comcast – Software Developer (Co-op)

Mar. 2023 – Sep. 2023

XLabs

Philadelphia, PA

- Developed and maintained REST APIs for web and mobile applications, incorporating CI/CD pipelines and unit testing to ensure agile and robust solutions.
- Crafted and optimized SQL queries for efficient data retrieval, supporting the functionality of the developed features.
- Created comprehensive documentation for all features in the web and mobile application, ensuring clear and concise instructions for users.

Technical Projects

Automated Capture of Corporate Actions

- Designed and implemented a serverless workflow using AWS services (S3, Lambda, Textract, SageMaker, DynamoDB) to extract data from unstructured tender offers.
- Fine-tuned an NLP model in SageMaker on domain-specific data to extract structured data fields from financial documents.
- Leveraged AWS EventBridge and Lambda for cost-effective, event-driven document processing.

Hand Gesture Recognition via Computer Vision

- Facilitated a team to develop an American Sign Language (ASL) recognition solution using MediaPipe, TensorFlow, and OpenCV.
- Built and trained a custom ASL model from scratch, ensuring accurate translation of hand gestures to text.
- Integrated real-time computer vision techniques to enhance system responsiveness and reliability.

Technical Proficiencies

Languages: C, Bash, Java, JavaScript, SQL, Python

Certifications: AWS Cloud Practitioner (CLF-C02)

Frameworks: NumPy, Flask, Pandas, React

Tools: AWS SDK, Git, Azure DevOps, Databricks, GitHub Actions, REST API Development, CI/CD Pipelines