

# Humaiz Akbar

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## Education

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### Drexel University

Bachelor of Science in Software Engineering  
Minor in Data Science

Anticipated Graduation: June 2025

Philadelphia, PA

## Work Experience

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### FS Investments – QA Engineer

Data Engineering

Apr. 2024 – Present

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 consolidated the resources into applications.
- Developed Python program to compare AWS ‘applications’ across different environments, identifying missing resources. Deployed CloudFormation templates to environments with missing resources to ensure consistency.
- 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

XLabs

Mar. 2023 – Sep. 2023

Philadelphia, PA

- Developed features for web and mobile applications integrating CRUD operations to streamline user interactions.
- Crafted and optimized SQL queries for efficient data retrieval, supporting the functionality of the developed features.
- Effectively utilized version control using GitHub to enhance team collaboration and streamline the resolution of complex development tickets.
- Created comprehensive documentation for all features in the web and mobile application, ensuring clear and concise instructions for users.

## Technical Projects

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### Automated Capture of Corporate Actions

- Designed a serverless workflow using AWS services (S3, Lambda, Textract, SageMaker, DynamoDB) to process and extract data from unstructured tender offers.
- Created an NLP model in Amazon SageMaker to accurately extract structured data fields from financial documents.
- Utilized 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 model using Media Pipe, TensorFlow, and OpenCV.
- Developed an AI system that leveraged hand gesture recognition to accurately translate ASL into text.

## Technical Proficiencies

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

**Frameworks:** NumPy, Flask, React

**Tools:** AWS SDK, Git, SQLite, Azure DevOps, Databricks, GitHub Actions