

Humaiz Akbar

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EDUCATION

Drexel University

Bachelor of Science in Software Engineering, Minor in Data Science

Anticipated Graduation: June 2025

Philadelphia, PA

EXPERIENCE

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

Apr. 2024 – Mar. 2025

Data Engineering

Philadelphia, PA

- Automated AWS resource discovery (e.g., S3, AppFlow, DynamoDB) by analyzing CloudTrail and deploying via CloudFormation.
- Integrated regression tests with AWS Inspector for Lambda security/performance validation.
- Automated Salesforce workflows using Testim to ensure post-update stability.

Comcast – Software Developer (Co-op)

Apr. 2023 – Sep. 2023

XLabs

Philadelphia, PA

- Developed and maintained REST APIs with CI/CD pipelines and unit tests for mobile/web apps.
- Wrote efficient SQL queries to support backend operations.
- Created detailed documentation for implemented features.

Zaphyr Technologies – Web Developer (Co-op)

Apr. 2022 – Sep. 2022

Parsippany, NJ

- Developed and updated the company website using HTML, JavaScript, and CSS.
- Collaborated with senior developers and designers to enhance user experience.
- Utilized Python libraries to extract and analyze data for internal use.

PROJECTS

Automated Capture of Corporate Actions | AWS S3, Lambda, Textract, SageMaker

- Built a serverless workflow to extract structured data from financial documents.
- Fine-tuned NLP model in SageMaker on tender offer datasets.
- Utilized EventBridge for event-driven processing.

ASL Hand Gesture Recognition | MediaPipe, TensorFlow, OpenCV

- Led development of real-time ASL to text converter using computer vision.
- Trained custom model for hand gesture classification.

RideWise – Smart Ride-Sharing Risk Assessment | Python, Streamlit, Pandas, HTML/CSS

- Built a web-based tool that evaluates ride-share safety by analyzing user inputs alongside real-time weather and historical traffic incident data.
- Integrated weather APIs and a curated dataset of past ride incidents to compute a dynamic safety score for each ride.
- Designed a clean interface for users to submit trip details and view transparent, data-backed risk explanations.

TECHNICAL SKILLS

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

Frameworks/Libraries: NumPy, Flask, Pandas, React

Tools/DevOps: AWS SDK, Git, Azure DevOps, Databricks, GitHub Actions, Jira, Confluence, CI/CD

Certifications: AWS Cloud Practitioner (CLF-C02)