

Justin Morgan

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Certification

Amazon Web Services

AWS Certified Cloud Practitioner

June 2024 – June 2027

Experience

Database & Integrations Engineer Intern

The Interpublic Group of Companies

July 2024 – Present

Conway, AR

- Developed and optimized Python and Lambda code, enabling dynamic query execution and automation of data processing tasks, resulting in streamlined data management and efficient report generation leading to a reduction in manual data handling by approximately 15 hours each month.
- Collaborated in the development of a company-wide AWS project that utilized Python, Lambda, S3, and multiple other AWS services to automate DataZone and Redshift population, enhancing stakeholders' and business owners' access to real-time data for critical reporting processes 40% faster.
- Built AWS data pipelines (Glue, Lambda) automating raw-to-curated processing using medallion architecture, implementing transformation for schema standardization and data quality enforcement

Database & Integrations Engineer Intern

Acxiom LLC

Jan 2023 – July 2024

Conway, AR

- Developed SQL queries and procedures to enhance data extraction, transformation, and reporting, significantly reducing processing time by 20% and resulting in an annual time savings of approximately 50 hours.
- Collaborated with cross-functional teams in Agile environments, participating in sprint planning, stand-ups, and retrospectives to ensure timely delivery of database solutions aligned with business goals. This contributed to a 15% improvement in project completion time.
- Architected cloud data pipelines (IPaaS) integrations on-prem/cloud systems, cutting latency by 30%

Projects

CNN Image Classification | *Python, PyTorch*

- Custom CNN architecture in PyTorch, including multiple convolutional layers, batch normalization, and pooling layers
- Conducts thorough performance evaluation, including precision, recall, F1-score, and class-specific accuracy metrics. Visualizes results using confusion matrices and heatmaps for detailed error analysis.
- Developed custom utilities for real-time monitoring of training progress, including loss tracking and periodic accuracy assessments during training.

AI - Powered Job Data Pipeline | *Python, AWS, PostgreSQL, OpenAI*

- Developed and maintained robust ETL pipelines in Python, leveraging asynchronous processing to fetch, clean, and transform job data from diverse sources.
- Integrated AWS services (S3, boto3) and PostgreSQL for scalable data ingestion and storage, ensuring efficient handling of high-volume datasets.
- Implemented advanced error handling, caching, and data validation techniques to optimize reliability and performance across the data workflow.

Education

University Of Central Arkansas

Bachelor of Science in Computer Science

Masters of Science in Computer Science

Conway, AR

Aug 2022 – Dec 2025

Jan 2025 - Dec 2026

Technical Skills

Languages: Python, TypeScript, SQL

Frameworks: Airflow, PyTorch, TensorFlow,

Developer Tools: Git, GitHub, AWS

Libraries: Pandas, boto3, NumPy, scikit-learn, seaborn, torchvision, Matplotlib