

# Jaden McClary

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## EDUCATION

### Texas A&M University

College Station, TX | Graduating May 2027

- Honors B.S. Computer Science, minor in Mathematics; GPA 3.84
- Relevant Coursework: Data Structures and Algorithms, Computer Systems, Foundations of Software Engineering, Computer Architecture, Calculus I, II, and III, Linear Algebra, Discrete Math, Statistics, Probability.

## PROJECTS

### Apple to Spotify Playlist Transfer <https://apple-playlist-to-spotify-playlist.onrender.com>

- Built a Django web application integrating OAuth2 and Spotify's API to transfer Apple playlists to Spotify.
- Developed custom parsers and a matching engine using Beautiful Soup, Regex, and Fuzzy String matching.
- Implemented MongoDB for backend storage, handling user sessions, tokens, and playlist metadata.
- Utilized Render for environment-based configuration to safely handle API keys and session data.

### MLOps Receipt Scanner

- Implemented data versioning with DVC and Google Cloud.
- Wrote Dockerfiles to efficiently containerize the environment for both training and the API.
- Finetuned microsoft/trocr-base-stage1 model with PyTorch on Vertex AI and logged features with MLFlow.
- Built two RPC style Flask APIs; one to receive receipt images and another for a backend proxy to load the model.
- Used Github actions and YAML to create a CI/CD pipeline.

### OpenCV Contributor

- Issued pull requests fixing string path variable issues.
- Diagnosed and provided a solution for false positive multi-threading memory leak issues.

### NorthshoreFamily.org

- Created a website for my local church using Wordpress, Cpanel, and Hostinger.
- Used Google Analytics for search engine optimization.
- Managed traffic from about 2000 viewers last year.

### AWS Portfolio with Resume Watcher <https://www.jadenmcclary.com>

- Personal portfolio website, created with AWS S3, Cloudfront, and hosted on Route 53, with a watcher on my resume that executes a CI/CD workflow with Github actions when updated.

## EXPERIENCE

### Advanced Vision and Learning Lab

College Station, TX

*Research Assistant*

October 2024 – April 2025

- Used PyTorch Lightning to create and train U-net audio diffusion models for dataset augmentation.
- Utilized High Performance Research Computing to submit and monitor jobs.
- Used feature engineering with fourier transforms to optimize the generated results.

## LEADERSHIP AND ACTIVITIES

### Amazon Guides Mentoring Program

College Station, TX

*Member*

August 2025 - Present

- Attending seminars and group calls by Amazon Robotics engineers to elevate my programming and collaboration skills.

### Freshman Leaders in Education and Human Development

College Station, TX

*Service Committee Leader and Freshman Counselor*

September 2023 – April 2025

- Routinely coordinated trips to a local elementary school to help kids in their classroom projects and activities.

## TECHNICAL SKILLS

- **Languages** – Python, C++, Bash
- **Frameworks** – Django, MongoDB, PyTorch, Docker, DVC, GitHub, AWS, Google Cloud, Numpy, Pandas, Keras