

# Cole Aydelotte

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## EDUCATION

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**Moravian University**

*Bachelor of Science in Computer Science*

**Expected Graduation: May, 2026**

*Bethlehem, PA*

## RELATED EXPERIENCE

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**Software Engineering Fellowship** | *Headstarter AI*

**July 22, 2024 – August 7, 2024**

- Completed seven projects over seven weeks, five projects in a team with three other developers
- Culminating in a final project where we were tasked to contribute to a open-source project
- Participate in weekly webinars with engineers from Google, Y Combinator, Stanford, Amazon and venture-backed startups

**Genre Classifier** | *Machine Learning Course Project*

**December 2024**

- Trained a Sophisticated statistical model to predict the genre of a audio file.
- Utilized **Scikit-Learn** for model building and **Jupyter Notebooks** for development.
- Model was trained using the GTZAN data set, the spectrograms were derived from the audio clips using **Librosa** and then fed with the numerical figures derived from the audio clips to the model during training.

**Blackjack Discord Bot** | *DevOps Course Project*

**May 2024**

- Created a Discord bot so when prompted in a text channel a blackjack game will be triggered with the user.
- Built using **Python**, Runs in a **Docker** container using **Python Virtual Environments**, launched on a **AWS EC2** instance, Storing the time played in a **Redis** database.
- Project can be launched in one command by using a shell script in the repository.

**AI Flashcard App** | *Headstarter AI*

**August 2024**

- An application where a user after signing up and subscribing ot the service can write a topic in a box, and 20 flashcards will generate. The user can then choose to save the flashcards.
- The web application **Next.js** as the framework, **React**, and **Material-UI**, **Stripe** to handle subscriptions, **Clerk** to handle users, **Gemini** to generate the flashcards, and **Firebase** to persist the flashcards to each user.

**Basketball Team Roster Application** | *Software Engineering Course Project*

**December 2023**

- A desktop application made to hold data on Basketball players where you can track statistics on a player for every practice or game.
- Built with **Java Swing** for the **GUI**, a **MySQL** database holding player and practice information, and **XChart** to graph data on cumulative or specific statistics of your roster or player.

**AI Customer Chat Support Bot** | *Headstarter AI*

**August 2024**

- A web-based customer chat support bot mimicking a support chat bot for a large scale company.
- The chatbot uses **Gemini** for the chat completions, **Next.js** as a framework, **React**, and **Material-UI** for the front-end

## TECHNICAL SKILLS

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**Languages:** Java, Python, SQL, JavaScript, HTML, CSS, Rust

**Frameworks:** Next.js, React, Node.js, Material-UI, Tauri, Vite, Scikit-Learn

**Developer Tools:** Git, Github, IntelliJ IDEA, PyCharm, VS Code, AWS, Docker, Jupyter Notebooks

## UNRELATED EXPERIENCE

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**Event Technician** | *Eggsotic Events*

**July 2023 - Present**

**Fry Cook** | *Mountain Dudes*

**July 2022 - January 2023**