

Antoine Edwards

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EDUCATION

Bachelor of Science in Computer Science

Alabama State University, Montgomery, AL

Expected Graduation Date: May 2027

Cumulative GPA: 3.9

TECHNICAL SKILLS

Languages: Python, C++, HTML, CSS, JavaScript, Typescript, Bash, SQL

Frameworks/Tools: React, Next.js, Flask, Git, Material UI, Firebase, RESTful API, Docker, Kubernetes, Adobe CC

EXPERIENCE

Dell Technologies

Austin, TX

ISG Software Engineering Intern

May 2025 - August 2025

- Developed blueprints to streamline deployment of the **Cohere Toolkit** for Retrieval-Augmented Generation (RAG) use cases.
- Enabled Dell Automation Platform (DAP) users to deploy the Cohere Toolkit on GPU clusters with Kubernetes manifests, Bash, and shell scripting—achieving a **50% reduction in deployment time**.
- Designed and implemented a RAG retrieval pipeline integrating **Milvus** and **Chroma** with Cohere's framework.
- Contributed to the launch of the **Dell Automation Platform Orchestrator**, enhancing private cloud environments by simplifying infrastructure deployment.

Mathematical Association of America

Montgomery, AL

Math and Machine Learning Researcher

May 2024 - August 2024

- Engineered solutions to enhance large language models using **back-propagation**, **gradient descent**, and **propositional logic** with neural networks, resulting in **improved accuracy**.
- Employed **Google Vertex** and **Google Co-Lab** to train a machine learning model for detecting and identifying animal species in images and videos.
- Collaborated with a research team to explore applications of the Hermite-Hadamard Theorem of inequalities by composing mathematical proofs.

Iconic Design Studios

Remote

Graphic and Web Designer

July 2022 - August 2023

- Collaborated with team members to design and manage Iconic Design Studio's website using **HTML**, **CSS**, **JavaScript** and **React**, enhancing operational efficiency and driving sales growth.
- Developed and executed social media campaigns, crafting posts to effectively promote and market Iconic Design Studios.
- Partnered with team members to develop and maintain an **online ordering website** for Iconic Design Studios, transitioning from social media-based orders to **streamline processes** and **boost sales**.

Black Enterprise & American Airlines SMART Hackathon

Charlotte, NC

Hackathon

November 2024

- Collaborated with team members to create "PackSafe", an application that leverages AI to scan luggage items and notify travelers if those items are permitted on a plane according to TSA guidelines.
- Utilized **Vision AI** to detect and label items and **HTML**, **React** and **Sass** to create a responsive user interface.

PROJECTS

FitFinder - AI Powered Outfit Finding App | Python, Flask, Google Cloud Vision AI, OpenAI Vision

[GitHub](#)

- Developing FitFinder, a web app that uses **Cloud Vision AI** to automatically identify clothing items in images, which then uses **Google Reverse Image API** to find outfits which have that clothing item.
- Utilizes **Python** to initiate the API's and **Flask** to create a web application with a user-friendly interface.

Pantry and Inventory Tracker | Next.js, Material UI, Firebase

[GitHub](#)

- Developed a web application to track, add and update inventory items.
- Utilized **Next.js** and **Material UI** for frontend components and **Firebase** backend for data storage.

CERTIFICATIONS

- Responsive Web Design (HTML, CSS)** – freeCodeCamp
- Python** – Kaggle

LEADERSHIP & EXTRACURRICULAR ACTIVITIES

HBCU Battle of the Brains Hackathon (2025); **National Society of Black Engineers** (2024-present); **TMCF Scholar**; **W.E.B. Du Bois Honors Program: Graphic and Web Designer** (2024-present); **ASU Men's Soccer** (2023);