

CHLOE GRAY

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EDUCATION

Louisiana State University

Bachelor of Science in Computer Science - Data Science and Analytics

Baton Rouge, LA

Expected Graduation: December 2025

Minor: Mathematics

- **Awards:** Academic Excellence Scholarship, TOPS Honors Scholarship, President's List, Dean's List
- **Relevant Coursework:** Big Data, Data Structures, Discrete Structures, Object Oriented Programming, Database, Computer Organization, Machine Learning, Software Engineering, Operating Systems, Applied Deep Learning, Differential Equations, Linear Algebra, Advanced & Multidimensional Calculus, Programming Languages, AI & LLM Development, Software Systems, Computer Networks
- **Organizations:** Women in Computer Science (Member), National Society of Leadership and Success (Member)

EXPERIENCE

Bullish Mining

Baton Rouge, LA

Data Center Management

August 2021 – January 2023, May 2025-Present

- Specialized in constructing and maintaining high-performance computing systems for cryptocurrency mining operations, ensuring optimal efficiency for custom PC builds and mining hardware.
- Conducted weekly maintenance, including checking logs for inconsistencies, dynamically adjusting fan speeds, and maintaining a consistent hash rate across 25 machines and 3 locations.
- Performed regular disassembly, cleaning, and reassembly of cryptocurrency mining rigs to prevent overheating or hardware failure.

Data Science Research, Louisiana State University

Baton Rouge, LA

Research Assistant

January 2025 – December 2025

- Conducted data analysis on over 10,000 data points to evaluate the impact of virtual reality on students with ADHD, applying statistical methods and machine learning techniques.
- Cleaned, preprocessed, and visualized large datasets (5K+ records per study phase) to extract meaningful insights and trends.
- Collaborated with researchers to develop and implement models to assess engagement, learning outcomes, and cognitive benefits.

Entergy, Louisiana State University

Baton Rouge, LA

LLM Contractor

August 2025 – December 2025

- Developed full-stack web application with PostgreSQL database, Python backend, and React frontend enabling HR personnel to create standardized job postings and employees to visualize personalized career roadmaps with AI generated insights on required skills, job movement, and expected timelines.
- Engineered an HR analytics platform using NLP techniques (TF-IDF) and unsupervised learning (DBSCAN) to consolidate over 3,000 job descriptions, reducing duplicates, and providing a clear, concise job description for each job title, enabling a one click standardized job posting creation.
- Created AI-driven career progression roadmap system analyzing 10+ years of employee movement data to generate optimal promotion pathways, identify internal candidates for priority positions, and provide personalized skill development recommendations using LLM integration.

MikeGPT, LSU Intersectional AI and Security Lab

Baton Rouge, LA

Software Developer Intern

July 2025 – Current

- Contributed to the development of MikeGPT, a secure Large Language Model platform used by 1,000+ LSU faculty and staff, using React, Django, REST APIs, and Azure cloud services.
- Implemented and tested new full-stack features that enhanced user experience and accessibility, supporting LSU's mission to provide a private alternative to commercial AI tools.
- Collaborated with cross-functional teammates to design, review, and ship production-ready features, gaining experience with agile development and version control best practices.

TECHNICAL SKILLS

- **Languages:** Python, SQL, Java, C, C++, C#, MatLab
- **Web & Tools:** JavaScript, React.Js, Typescript, CSS, HTML, Firebase, Tailwind.CSS, Azure, AWS
- **ML & Data:** TensorFlow, MATLAB, Kaggle, Jupyter, Excel, NumPy, Pandas, OpenAI API
- **Development:** Figma, Git, PyCharm, VSCode, Jira

NOTABLE PROJECTS

Where-to-Start

A Fitness Website Project

August 2024 – December 2024

- Served as the Project Manager and Communications Lead, coordinating with a team of 4 developers to manage project timelines using Jira, fostering effective communication and streamlined progress tracking.
- Designed and implemented a responsive and user-friendly workout website using React, JavaScript, CSS, and Firebase to create a functional and visually appealing interface.
- Participated in sprint planning, task assignment, and progress reviews using Agile methodologies and collaboration tools like Discord.
- Utilized Git for version control and collaborated on code reviews to ensure consistency and allow for efficient development.

Music Genre Classifier

Machine Learning Project

August 2024 – December 2024

- Developed a machine learning model to classify music genres based on audio characteristics, aimed at organizing large music libraries and enhancing music recommendation systems.
- Worked with the GTZAN dataset to process spectrogram images after modifying the images to enhance model focus, training a Convolutional Neural Network and achieving 55% accuracy rate with early stopping applied.
- Demonstrated the Random Forest model's robustness by achieving 89% classification accuracy, concluding that both approaches could further improve genre classification performance.

TigerAI IBM Bootcamp

AI Security Bootcamp

May 2024

- A five-day bootcamp event presented by IBM and LSU covering Machine Learning fundamentals, Federated Learning, Large Language Models inference and fine-tuning, and Artificial Intelligence & Data Security

FiscalFocus

GeauxCash Hackathon Project

March 2025

- LSU WiCS Hackathon- Received First Place and Best in Technical Awards
- Competed among 180+ participants to build an innovative website focused on financial awareness in under 48 hours.
- Developed an all-in-one platform that streamlines data upload, financial analysis, forecasting, and goal tracking, giving advisors a clear and centralized view of financial health and risk using multiple machine learning algorithms.
- Created and trained various machine learning models on historical SEC filings and stock data from previous years to predict stock prices, identify risky invoices, and assess the overall financial standing of companies.

CarbonSight

CCUS & Environmental Compliance Dashboard

August 2025 – December 2025

- Collaborated with a team of developers to architect and develop full-stack multi-portal platform integrating Climate TRACE's satellite emissions database for Louisiana industrial emissions management.
- Built three specialized dashboards: Company portal with AI recommendations, compliance tracking, and task management; Public portal with regional/sector filtering and emissions analytics; Regulator portal with statewide oversight, compliance alerts, and company monitoring.
- Implemented recommendation engine analyzing historical emissions patterns to generate prioritized sustainability initiatives with impact projections, timelines, and cost-benefit analysis.
- Advanced to Nexus LA DevDays competition finals, where my team and I presented our application with a live demo, document management workflows, and automated compliance deadline monitoring