

Elizabeth Sakyi Mensah

Portfolio • (318) 350-7485 • emensah@gsumail.gram.edu • [linkedin.com/in/elizabeth-sakyi-mensah](https://www.linkedin.com/in/elizabeth-sakyi-mensah)

EDUCATION

Grambling State University

B.S. in Computer Science & Cybersecurity

May 2028

Grambling, LA

Relevant Courses: Data Structures and Algorithms, Calculus, Object-Oriented Programming, Operating Systems, Discrete Structures, Computer and Network Systems, Embedded and Distributed Systems

TECHNICAL SKILLS

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

Technologies: React, Node.js, FastAPI, Flask, Pinecone, GPT-4 API, Scikit-learn, Pandas, Seaborn, NLTK, REST APIs, Semantic Search

Tools: Git, GitHub, GCP (Google Cloud), Jupyter Notebooks, Tableau, Replit, Postman, Microsoft Office, Google Workspace

EXPERIENCE

Headstarter

June 2025 - Present

Software Engineer Fellow

- Built an AI-powered image generation tool using GPT-4, FastAPI, and Pinecone; reduced semantic search latency by **40%**
- Led a team of 6 to deliver a full-stack SaaS analytics dashboard with React, TypeScript, Node.js, and PostgreSQL
- Deployed microservices using Docker and implemented MVC architecture, improving development velocity by **30%**

Data Science Research Intern

May 2025 - Present

Computer Science Dept., GSU

- Built a logistic regression model that predicted at-risk students with **87% accuracy**, enabling early intervention
- Analyzed academic datasets with Pandas/Seaborn to identify GPA decline patterns across **3,000+ records**
- Delivered 4 dashboards influencing academic policy changes for the 2025–2026 academic year

Cybersecurity Awareness Intern

Jan 2025 - May 2025

Cybersecurity Dept., GSU

- Delivered 6 interactive workshops attended by 100+ students on phishing, social engineering, and threat awareness
- Reduced phishing simulation click-throughs by **30%** after student trainings using Nmap and Wireshark demos
- Developed digital posters and phishing simulations now used in annual campus cybersecurity campaigns

Peer Tutor – Python & Calculus I

Jan 2025 - May 2025

Academic Success Center, GSU

- Provided 1:1 and group tutoring to **25+ freshmen**, resulting in an **average GPA increase of 0.6 points** across tracked students
- Developed coding worksheets and interactive Python practice sets adopted by the CS department
- Led weekly workshops that improved midterm pass rates by **15%** for targeted STEM students

PROJECTS

Selisah | Python, NumPy, Scikit-Learn, Replit

May 2025

- Built an AI-powered assistant to recommend skincare routines using quiz inputs and verified dermatological data
- Achieved **82% user satisfaction** during internal testing with **60+ students**; deployed via Replit and used in campus clubs
- Integrated rule-based logic and early ML classification (skin type prediction) using Python

TigerPulse | Python, JSON, JavaScript

Feb. 2025

- Developed a smart assistant answering **100+** student queries on financial aid, housing, and course registration
- Reduced repeated help desk inquiries by **40%** during pilot test with 30 peer users
- Trained the system using real student questions and answers via JSON datasets

GramFile | Python, SQLite, Pandas

Nov. 2024

- Engineered a terminal-based student management tool supporting **CRUD** operations on academic records
- Implemented dynamic search/filter by name, GPA, and ID; tested with mock data from **500+ records**
- Shared with CS students as a template for their database course projects