JOSEPH KOFI ADU

GitHub | LinkedIn | Email

EDUCATION

- **Grambling State University** — Graduating May 2028
  B.S. in Computer Science; Dean's List — *Grambling, Louisiana, USA*
  - Relevant Coursework: Data Structures & Algorithms, Software Engineering, Database Systems, Web Programming, Machine Learning, Object-Oriented Programming (OOP), Discrete Structures

TECHNICAL SKILLS

- **Languages:** Python, C++, JavaScript (ES6+), HTML5/CSS3, SQL

- **Frameworks/Tools:** Flask, Bootstrap, Git/GitHub, SQLite, Linux CLI, VS Code

EXPERIENCE

- **Undergraduate Research Assistant – Department of Computer Science** — Summer 2025
  Grambling State University — *Grambling, LA*
  - Applied supervised learning algorithms (Logistic Regression, Random Forests) to optimize large-scale tabular data analysis pipelines.
  - Engineered data preprocessing scripts in Python (NumPy, Pandas) for feature extraction, normalization, and handling of missing values.
  - Implemented hyperparameter tuning and k-fold cross-validation to improve model accuracy
  - Collaborated in weekly research group meetings; presented technical findings with reproducible Jupyter notebooks and documented results.

- **Website Administrator & Marketing Assistant – Kairova Clothing Brand** — Jan 2024 – Present
  Remote
  - Administered the brand's e-commerce site; executed UI/UX improvements that reduced cart abandonment.
  - Applied SEO optimization techniques (keyword targeting, meta tags) to increase organic traffic.
  - Collaborated with cross-functional design team to enforce consistent branding across digital assets.

PROJECTS

- **Personal Finance Tracker Web App**
  Python, Flask, SQLite, Bootstrap
  - Built a secure, full-stack financial dashboard handling CRUD operations for 50+ transactions/month.
  - Implemented password hashing (Werkzeug) and session-based authentication for secure login.
  - Optimized database schema design with indexed queries, reducing report-generation latency.

- **E-Commerce Platform**
  Flask, SQLite, HTML/CSS, Bootstrap
  - Engineered a scalable e-commerce web app with product catalog, cart, and checkout workflows.
  - Integrated Mobile Money payment API for the African market, enabling secure online transactions.
  - Implemented responsive design and optimized frontend load time.

- **AI-Powered Resume Screener**
  Python, scikit-learn, Pandas, NLP
  - Developed a machine learning pipeline to match resumes against job descriptions using TF-IDF vectorization and cosine similarity.
  - Trained and validated classification models (Logistic Regression, Naive Bayes), achieving accuracy in skill-matching.
  - Deployed preprocessing pipeline for automated keyword extraction and ranking of applicant skills.

LEADERSHIP & EXTRACURRICULAR

- **ColorStack – Grambling State University Chapter** — 2024 – Present
  Member
  - Participate in a nationwide community supporting Black and Latinx computer science students through mentorship, coding workshops, and networking opportunities.
  - Collaborate with peers on technical interview prep and skill-building activities to strengthen readiness for internships at top tech companies.
  - Engage in events promoting diversity and inclusion in computing, reinforcing commitment to leadership in the CS field.