Kanz Giwa

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EDUCATION

Bachelor of Arts in Computer Science and Bachelor of Arts in Data Science **GPA:** 3.57/4.00
University of Rhode Island, Kingston, Rhode Island May 2026
Online Masters of Science in Computer Science - Admitted
Georgia Institute of Technology Fall 2026 (anticipated)

RELEVANT COURSEWORK

Software Engineering, Data Structures, Database Management, Computer Organization, Object-Oriented Programming

TECHNICAL SKILLS

- **PROGRAMMING LANGUAGES:** Python, JavaScript, TypeScript, C++/C, R, Assembly, SQL, Tailwind CSS
- **TOOLS**: GitHub, Vercel, Linux, Next.js, Node.js, CI/CD, Microsoft Office, AWS, MongoDB, Stripe, Docker, Supabase

PROFESSIONAL EXPERIENCE

Robotics Engineer Intern, Jaia Robotics, Bristol, RI June 2025 - August 2025

- Improved mission control efficiency by 40% by integrating Xbox controller support into JaiaBot's React interface using JavaScript, adding 5+ new functions, and conducting comprehensive unit and user testing
- Reduced diagnostic testing time by 50% by designing and implementing a C++ diagnostic module for JaiaBot using Goby software, integrating a GUI, and automating IMU, pressure, and motor sensor tests
- Participated in Agile workflows, testing sprints, and cross-functional collaboration during 3+ ocean trials to gather real-time performance data
- Executed 20+ interface tests verifying GPS reacquisition indicators during dive tasks and bot status color/age changes after simulator stop, ensuring 100% accuracy in mission state feedback

Break Through Tech Fellow, Cornell University, Remote May 2025 - Present

- Built a LightGBM survival analysis model for WiDS to predict wildfire evacuation threats achieving a 0.939 hybrid score
- Collaborated with a team to build machine learning models for Allstate Insurance, analyzing 100,000+ records to identify key cost drivers and reducing Mean Absolute Error by 40 percent
- Earned Machine Learning Foundations certification through Break Through Tech by completing hands-on labs across core ML/AI topics, including KNN, Deep Learning, Computer Vision, NLP, Linear/Logistic Regression, and more

PROJECTS

Fuelify: Full-Stack Android Application | github.com/KanzGiwa/GasPriceTracker

- Increased user efficiency by 35% by developing an Android app that enables users to locate the lowest real-time gas prices by ZIP code, built using Dart/Flutter with a Firebase backend and API integrations
- Enhanced application quality as the Scrum Master by overseeing alpha testing with 20+ users, identifying 15 critical bugs, and implementing user feedback to improve app performance before beta release
- Streamlined development workflow by implementing GitHub version control, creating 30+ PBI cards for issue tracking, and writing detailed user stories to guide development tasks

Bakery E-Commerce Web Application | github.com/KanzGiwa/SweetTreats

- Boosted client sales by 20% by developing a responsive web application using Python, JavaScript, HTML, and CSS that enabled 100+ users to browse menu items and place orders seamlessly
- Reduced data management costs by 100% through integrating Google Sheets as a backend database via the Google Sheets API, utilizing Google Cloud Console for secure authentication
- Improved order processing efficiency by 30% by implementing a Flask-based backend to handle JSON requests, extract order details, and store customer information securely

Maternal Health Risk Classification Project | github.com/KanzGiwa/Maternal-Health-Risk-Machine-Learning-Project

- Engineered a supervised classification model with Google Colab to predict maternal health risk using 1,014 records
- Optimized Logistic Regression, Random Forest, and SVM algorithms through preprocessing, cross-validation, and GridSearchCV to improve accuracy by 62% and identify key predictors for actionable healthcare insights

COMMUNITY INVOLVEMENT

Community Energy and Environmental Justice Intern, Roots2Empower: Increased community engagement by 30% collaboratively organizing 6 events and creating an educational booklet reaching 150+ residents, while producing 5+ research reports and policy analyses on clean energy and circular economies to inform organizational strategy and community outreach