

KAMSIYCHUKWU UWAH

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EDUCATION

Texas Tech University - Lubbock, Texas

Completed: Fall 2024

Bachelor of Science in **Computer Science**, Minor in **Mathematics**

GPA: 3.81

Relevant Coursework: Software Engineering, Computer Architecture, Intro to Artificial Intelligence, Object Oriented Programming, Discrete Mathematics, Data Structures, Calculus, Modern Digital System Design, Statistics

SKILLS

Tools: NetBeans, Figma, GitHub, IntelliJ, Jira, AWS Management Console, Tableau, Copilot, Canva, Google Workspace, Palo Alto

Programming Languages: SQL, Python, C, Java, JavaScript, HTML/CSS, React, PySpark

PROFESSIONAL EXPERIENCE

Full Stack Developer | BeatStake

January 2025 – Present

- Built a FastAPI + React/MongoDB platform enabling fans to buy fractional stakes in artists' streaming revenue.
- Seamlessly integrated Spotify & Apple APIs to auto-fetch track metadata, album art, and 30-sec preview clips.
- Designed Chakra UI dashboards with React Context for uploads, price edits, and subscription-gated catalog views.
- Implemented JWT cookie authentication and guarded routes, boosting session security and seamless navigation.
- Designed secure REST APIs powering music catalog CRUD, OTP/MFA login, notifications, and streaming-share transactions.

Teaching Assistant | Texas Tech University

September 2024 – December 2024

- Enhanced grading efficiency by integrating Python scripts and grading tools with manual workflows, improving accuracy by **25%**.
- Analyzed weekly performance data using Excel and basic statistical methods, enabling targeted academic interventions and boosting student outcomes by **15%**.
- Worked with faculty to build standardized rubrics, streamlining assessment logic and increasing grading consistency by **20%**.

Software Development Engineer Intern | Amazon

May 2024 – August 2024

- Architected a serverless solution for tenants, cells, and site provisioning in Amazon's Inventory Instance Management team.
- Developed an AWS Lambda package to parse payloads, validate schemas, update configs, and store tenant data in DynamoDB.
- Launched an auto-review pipeline triggering PRs with linting and checks to improve code quality and collaboration.
- Integrated the Simple Issue Management API so each onboarding event auto-generates and tracks a ticket for full auditability.

PROJECT EXPERIENCE

Software Developer | Smart City Environmental Monitoring System

August 2024 – December 2024

- Built a Flask backend to process real-time environmental data (air quality, noise levels) via APIs, enhancing system performance.
- Developed a VAR model to forecast environmental trends using historical sensor data, improving long-term prediction accuracy.
- Created a responsive React dashboard to visualize real-time environmental data with interactive graphs, heatmaps, and charts.
- Designed and deployed a notification system for threshold-based alerts, enabling faster, proactive decision-making.
- Aggregated environmental data in MongoDB, supporting real-time analytics for predictive modeling and reporting.

Software Developer | Cellular Life Simulator

January 2024 – May 2024

- Built a modular cellular-automata simulator in Python that model's life-cycle rules on grids of any size.
- Packaged a CLI + JSON config so users can load seed patterns, tweak run parameters, and export results in one command.
- Parallelized the update loop using Python's multiprocessing module, significantly cutting end-to-end runtime.

Software Developer | Tetris Game

August 2022 - November 2022

- Revitalized the Tetris game with advanced object-oriented design, enhancing gameplay interaction and graphical interface.
- Introduced new game functionalities, including brick rotation, line clearance, and score tracking for improved gameplay.
- Implemented dynamic scoring and responsive game state features, driving a **30%** increase in user retention.

LEADERSHIP EXPERIENCE

Financial Officer | ColorStack

January 2024 – December 2024

- Ensured chapter activities aligned with goals and by-laws, achieving **100%** compliance with organizational standards.
- Managed financial reporting, enhancing transparency and accountability by maintaining detailed transaction records.
- Developed and presented bi-semester financial reports and budgets, boosting informed decision-making among members.
- Led fundraising efforts, optimizing resource allocation and increasing funding by **25%** to support chapter objectives.

SGA Representative | National Society of Black Engineers

August 2022 – May 2023

- Represented 80+ NSBE members at weekly SGA senate meetings, championing funding and diversity-in-STEM priorities.
- Drafted an SGA by-laws amendment streamlining cultural-org funding requests; unanimously passed and adopted.