Fiker Kifle

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EDUCATION

Bachelor of Science in Computer Science: Northern Kentucky University, Highland Heights, KY   May 2026

SKILLS AND CERTIFICATIONS

- Languages: Python, SQL, Java, CSS, HTML, JavaScript, C++/C, TypeScript
- Frameworks: Spring boot, React.js, Express.js
- Data & Cloud Tools: AWS, Docker, MongoDB, Tableau, Databricks, CI/CD, Apache Spark

RELEVANT COURSEWORKS

- Data Structures and Algorithms
- Artificial Intelligence (AI)
- Computer Architecture and Organization
- Operating Systems
- Object-Oriented Programming I & II
- Advanced Programming Methods in C++
- Database Programming
- Web Development and Design

PROFESSIONAL EXPERIENCE

Data Engineering Intern, Kroger   August – December 2025

- Will design, develop, and test **data pipelines** and **ETL workflows** using **SQL, PySpark, and Databricks** to support supply chain analytics and reporting.
- Will implement **data transformations** and performance optimizations for large-scale datasets, enabling timely forecasting and retail decision-making.
- Contributing in **Agile ceremonies** (daily stand-ups and sprint planning) to collaborate with engineers, analysts, and product owners.

TECHNICAL PROJECTS

Page Fault Calculator   June 2025

- Developed a **React.js web application** with **JavaScript** and **Tailwind CSS** implementing **4 Operating Systems page replacement algorithms** (FIFO, LRU, LFU, Optimal) to automate manual calculations, eliminating time-consuming verification processes and reducing any calculation errors.
- Designed interactive **user interface with real time step by step visualization** featuring dynamic memory frame displays, page fault tracking tables, and responsive design, enabling students to instantly understand algorithm behavior patterns and **improving algorithm comprehension in testing**.
- Engineered modular algorithm architecture using **object-oriented JavaScript classes** with **hash maps** for LFU frequency counting, **array-based circular indexing** for FIFO operations, and **timestamp tracking** for LRU enabling accurate simulations across **1,000+ test cases** with robust error handling.

Pantry Tracker App   September 2024

- Designed, built, and deployed a user-friendly application with **ReactJS**, allowing users to efficiently add, update, and manage pantry items and quantities.
- Utilized **Firebase** for backend data storage and real-time synchronization, enabling instant updates to pantry inventory and achieving data consistency across **1000+ active users** for daily use.
- Implemented **Llama 3.1 for image classification along with Langchain and TypeScript**, enabling users to identify pantry items and suggesting relevant categories.

Undergraduate Teaching Assistant   January – May 2024

- Collaborated with **course instructor** on **curriculum development** and **instructional design**, refining lecture materials and hands-on labs to align with **learning objectives**.
- Mentored **25+ students** in **HTML5**, **CSS3**, and **JavaScript (ES6)** core concepts, accelerating their understanding of front-end development and debugging techniques.
- Managed to improve average course grade **from 70% to 85%**.

LEADERSHIP AND AFFILIATION

- National Society of Black Engineers (NSBE) at NKU, Treasurer   04/2024 – Present
- Headstarter Artificial Intelligence (AI), Fellowship   08/2024 – 09/2024
- ColorStack, Apprenticeship   01/2024 – Present
- Global Ambassador (GLAM), Northern Kentucky University   05/2023 – Present
- Haile Ambassador (HA), Northern Kentucky University   04/2023 – Present
- Association for Computing Machinery (ACM), Northern Kentucky University 03/2023 – Present