

Fikir Demeke

📞 (605) 728-5589 | ✉️ fikir.demeke@bison.howard.edu | 🌐 [fikir.demeke](#) | 🌐 [Portfolio](#)

EDUCATION

Howard University

Washington, D.C.

B.S. in Computer Science | GPA: 3.7/4.0

Expected Graduation: May 2027

Relevant Coursework: AI Engineering, Software Engineering, Data Science, Cybersecurity, iOS App Development, Database Systems

TECHNICAL SKILLS

Languages: Python, Java, C/C++, Swift, JavaScript, TypeScript, SQL, HTML/CSS, R

Frameworks & Tools: SwiftUI, SceneKit, Xcode, React, Next.js, Flask, Node.js, Streamlit, Git, GitHub, Linux/Unix

Data & ML: Pandas, NumPy, Plotly, Matplotlib, Seaborn, MySQL

Core Concepts: OOP, Data Structures, Algorithms, REST APIs, Client-Server Architecture, Unit Testing, CI/CD

PROJECTS

HBCUhire | Next.js, TypeScript, SQL, Prisma, OpenAI API

Mar. 2026 – Present

- Scoping a full-stack opportunity hub for HBCU students to aggregate jobs, internships, scholarships, and fellowships. Currently in architecture phase with Next.js, PostgreSQL, and Prisma.

Soul Fragments | Swift, SceneKit, SwiftUI, Xcode

Jan. 2026 – Present

- Architected a 3D iOS game in Swift and SceneKit with a multi-dimensional architecture, delivering 3 distinct gameplay environments with unique physics, lighting, and environmental effects within a single scene graph.
- Built a dynamic ability system supporting 6 unique abilities and 4 unlockable combinations by modeling all game state in an `@Observable` Swift architecture, enabling real-time SwiftUI reactivity across all player interactions.

GreenRoute | Python, React, Flask, NVIDIA Nemotron API

Oct. 2025 – Dec. 2025

- Built the React frontend for an AI-powered eco-route planner by integrating route visualization components with a Flask REST API, enabling users to compare travel options by sustainability score.
- Improved eco-route accuracy by integrating NVIDIA Nemotron API with real-time emission and traffic data, enabling natural language queries to surface sustainable travel options across carbon and transit dimensions.

Personal Finance Tracker | Python, Streamlit, Plotly, Pandas

Dec. 2024 – Nov. 2025

- Built a multi-page Streamlit web app across 4 views by designing Pandas pipelines that import, clean, deduplicate, and aggregate bank CSV exports, reducing monthly budget review time from hours to minutes.
- Surfaced spending patterns across 6+ categories by implementing a Plotly interactive dashboard with a trend line, donut chart, stacked bar, and daily heatmap, enabling data-driven budget decisions at a glance.

WORK EXPERIENCE

Best Buy

Sioux Falls, SD

Retail Sales Associate

Aug. 2024 – Jan. 2025

- Provided technical troubleshooting and product guidance to 50+ customers weekly.
- Collaborated with a cross-functional team to grow department sales by 24% during peak season.

Abrehot Library

Addis Ababa, Ethiopia

Digital Archives & Data Management Intern

Apr 2023 – Aug. 2023

- Automated data cleaning and ETL pipeline processing with Python, improving record retrieval efficiency by 35%.
- Digitized and organized 1,000+ records into a relational MySQL database to support reliable library operations.

LEADERSHIP AND ORGANIZATIONS

NSBE, ColorStack, CodePath, SWE, IEEE, RTC, EESA | Howard University | Member

Computer Science Club | Augustana University | Technical Chair

Oct. 2023 – Jan. 2025

- Led 5+ peer workshops on Git, OOP, and data structures, designing hands-on exercises that increased attendance by 40% over the academic year.

CERTIFICATES

AWS Certified Cloud Practitioner | CodePath Web Development | Codepath Intermediate Cybersecurity