

Tyreek Brasfield

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Education

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| <ul style="list-style-type: none">• Hinds Community College
<i>General Studies</i>• University of Southern Mississippi
• <i>Bachelor of Science in Computer Science</i> | 2019-2021

2022-2025 |
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Side Projects

Otus Finance – Finance Management App

- Developed a cross-platform finance app using **C#** and **.NET MAUI**, with **MySQL** integration for transaction and account data management.
- Built user-facing features for expense tracking, budgeting, and profile management, enabling a seamless personal finance experience.
- Oversaw the project lifecycle as **project manager and full stack developer**, from UI design to backend implementation.
- Delivered a dynamic dashboard for visualizing user spending trends, improving financial awareness for users.

Recruitment Buddy – Degree Recommendation Web App

- Engineered a **responsive web application** using **Python/Flask**, **HTML/CSS**, and **JavaScript**, aimed at matching students with compatible degree programs.
- Designed an **interactive Likert-scale questionnaire** and real-time result tracking system to personalize major recommendations.
- Implemented backend logic and **SQLite** storage for lightweight, efficient data handling.
- Prioritized accessibility and mobile responsiveness to ensure inclusive user experience.

Code Tracker – Browser Extension for Behavior Tracking AI Usage

- Created a **Chrome/Edge browser extension** in **JavaScript and HTML** to detect potential AI usage by logging typing behavior, tab switches, and idle time on coding platforms.
- Processed and exported behavioral data for downstream analysis in machine learning pipelines.
- Trained and evaluated models (**Random Forest**, **LSTM**, **XGBoost**) on collected data, achieving **95% accuracy** in AI-vs-human classification (80/20 split).
- Applied software engineering principles for modularity, code efficiency, and maintainability, contributing to research in academic integrity and security.

Technical Skills and Interests

Languages: C++, C#, HTML, CSS, JavaScript, Python, Java, SQL, Node.js

Frameworks: .NET Maui, React

Technologies: Visual Studio, VS Code, Figma, Kali Linux, Git, GitHub, Vite,

Databases: MySQL, SQL lite

Soft Skills:

Leadership, Communication, Working with a team, Organization, and Time Oriented

Area Of Interest:

Software Engineering and Web development