

Taarik Ashenafi

📞 469-618-5877 ✉️ taarikashenafi@gmail.com [in linkedin.com/in/taarik-ashenafi](https://www.linkedin.com/in/taarik-ashenafi) github.com/taarikashenafi

Education

University of Houston

August 2023 - May 2027

Bachelor of Science in Computer Science (GPA: 3.9 / 4.0)

Houston, Texas

- **Relevant Coursework:** Computer Science and Programming (Python), Introduction to Programming (C++), Calculus I, Discreet Mathematics, Computer Organization and Architecture
- **Activities:** National Society of Black Engineers, Code Coogs

Experience

Pro Players Foundation

Jun 2023 - Present

Volunteer Software Developer

Southlake, Texas

- Revamped the organization's website using **React and Tailwind CSS**, improving page load speed by **20%** and enhancing user experience for over **2,000+** monthly visitors.
- Implemented **responsive web design strategies**, achieving full compatibility across devices and WCAG compliance for accessibility standards.
- Collaborated with the marketing team to redesign event landing pages, resulting in a **15%** increase in site traffic and donor engagement.

Projects

NBA Stats Predictor | *Python, XGBoost, Pandas, Scikit-learn, Streamlit*

- Designed a predictive **machine learning application** to estimate NBA player stats using advanced feature extraction on **1M+** records, improving prediction accuracy by **25%**.
- Engineered a comprehensive **data cleaning pipeline** using **Pandas** and **Scikit-learn**, ensuring optimal training data quality.
- Built an interactive **Streamlit dashboard** for real-time data visualization, providing users with customizable and dynamic insights.
- Trained models with **XGBoost**, achieving a precise Test MSE score of **0.1681**, and implemented tailored feature sets for enhanced predictions.
- Deployed the application via **Streamlit**, enabling public access and seamless scalability for real-time predictions.

Investment Advisor App | *React, RESTful APIs, Axios, Vercel, Firebase, MongoDB*

- Built a dynamic **full-stack financial analysis application** with **React** and **Next.js**, integrating real-time stock data, trends, and news using **RESTful APIs**.
- Developed secure multi-provider authentication (Google, GitHub) with **Firebase**, enabling users to manage profiles and engage with the platform.
- Enhanced user engagement by implementing a persistent watchlist feature, storing user preferences in **MongoDB** for personalized insights.
- Optimized app performance through **caching strategies**, reducing API calls by **30%** and improving user experience.
- Deployed the application on **Vercel** for scalable, high-availability performance.

Technical Skills

Programming Languages: Python, HTML/CSS, JavaScript, Java, C++

Frameworks and Libraries: React, Flask, Spring Boot, TensorFlow, PyTorch

Data Analysis & Machine Learning Tools: Numpy, Pandas, Scikit-Learn, XGBoost

Other Tools and Technologies: Git, Firebase, Vercel, MongoDB

Core Competencies: Data Structures & Algorithms, Object Oriented Programming (OOP), Machine Learning, Full-Stack Development