# Magret Adekunle

http://www.linkedin.com/in/magret-adekunle | https://github.com/Magret7 | magretadekunle@gmail.com | Austin, Tx 78705

## EDUCATION

**University of Texas at Austin |** African & African Diaspora Studies & Elements of Computing *expected* May 2024

- **GPA:** 3.50
- **Organizations:** Association of Black Computer Scientist | ColorStack | Texas Nutrition | Girls Who Code
- **Certificates:** Google Technical Support Fundamentals | **Meta iOS Developer** |
- **Awards:** Deans List x4 | NCWIT**:** Award for Aspirations in Computing & Aspirations in Computing Award Winner x2

## REALTED COURCES

- **Computer Science Courses:** Elements of Computer Graphics and Data Visualization | Elements of Software Engineer I & II| Elements Of Web Programming | Elements Of Software Design | Intro to Programming
- **Math Courses:** Applied Statistics | Differences and Integral Calculus | Intro to Probability and Statistic | Sequences, Series, and Multivariable Calculus | Discrete Mathematics | Probability I

## TECHNICAL SKILLS

**Programming Languages:** Python | Java | JavaScript | PHP | R | Swift
**Web Technologies:** HTML5 | CSS | ASP.NET | Bootstrap | jQuery
**Database and Data:** MySQL / SQL | LINQ Pad & Query | JSON | Data Bricks | DBT | AWS | Spark SQL | Pyspark | R Studio

## WORK EXPERIENCES & PROJECTS

**Koinonia Texas – Marketing & Design Intern** 6 Hours/week Aug. 2023 – Dec. 2023

- Craft visually captivating **marketing collateral**, including flyers, brochures, banners, and social media graphics, aligning them with the church's distinctive **branding and messaging**.
- Assist the **enhancement and regular maintenance** of the church's website, focusing on **optimizing user experience**.
- Aided in **strategizing**, **promoting**, and successfully **executing** a diverse range of church events and programs.
- Responsibilities include designing eye-catching event posters, developing online registration forms, and **orchestrating comprehensive marketing campaigns**.
- Monitor the effectiveness of marketing initiatives by **monitoring engagement metrics** across social media, website traffic, and email campaigns. Utilize this valuable data to steer data-driven decision.

**H-E-B – Software Data Engineer Intern** 40 Hours/week May 2023 – July 2023

- Leveraged **PyCharm** to integrate **DBT** data validation metrics, **Slack alerts**, and **Great Expectation** to the CI/CD pipeline.
- Developed comprehensive **data validation** & **metrics framework** utilizing **SQL**, **Pyspark**, **Python**, and **Spark SQL**, with **Data Bricks** integration for access to H-E-B analytics data on the company's website and application.
- Integrated **UI** for enhanced **visibility**, **monitoring data tests**, data quality metrics, and job runs within a single interface.
- Implemented **Slack alerts** and **reporting** for **efficient detection of test failures**, enabling **faster problem resolution**.
- Contributed to data consistency by **eliminating duplicate datasets**, **optimizing logic and table creation**, resulting in accelerated development, quicker turnaround times, and more efficient delivery.

**H-E-B – System Software Developer Intern** 40 Hours/week May 2022 – July 2022

- Develop a **web application**, employing **C#**, **JavaScript**, **HTML5**, and **CSS**. Leveraging **Visual Studio 2022** to successfully migrate the HEB enterprise machinery data into a **user-friendly web-based platform** accessible on any device.
- Enhanced search and accessibility efficiency within the user interface, resulting in an **improvement of over 60%.**
- The web application can **display**, **filter**, and **sort** data not limited to geo-location, device types, IP address, and Pings Status.
- Employed **Postman REST API** to proactively diagnose and address issues at an early stage of development. Additionally, leveraged **LINQ Pad** & **Query** to refine data access, ensuring optimized performance and seamless integration.
- Implemented **real-time record-keeping** functionality, along with an **API interface**, to pave the way for future projects such as automated certificate management, device monitoring, and distributed patching.

## PERSONAL PROJECTS - Available in GitHub

**Collatz Problem**

- Designed and implemented a Python program to efficiently solve the renowned **3n+1 Problem**, incorporating a **cache optimization** for enhanced performance.
- Utilized **VS Code** for code development, crafting Unit and Acceptance Tests, and obtaining comprehensive Coverage results.
- Mastered Co-development using GitLab to track and address issues, consequently elevating the quality of **CI/CD pipeline** integration.

**Diplomacy Game - Monty Hall problem**

- Implemented code in **R** within **R Studio**, creating a dynamic program that iterates through (n) rounds of the Monty Hall game.
- Application **records** and **visualizes** the proportion of rounds where the **optimal strategy was to switch**, correlating this outcome with the number of rounds (n).
- Demonstrated exceptional **computational accuracy,** with results consistently aligning with the well-established analysis presented for the Monty Hall Problem.