Talha Ali

Rochester Hills, MI | talha.ali3002@gmail.com | linkedin.com/in/talha-ali-/ | github.com/talhaali-2003 | talhaali.com |

EDUCATION

Wayne State University   Detroit, MI
*Bachelor of Engineering in Computer Science – **GPA: 3.8** (Dean's List)*   *May 2025*
Relevant Coursework: C++, Data Structures, Algorithms and Analysis, Database Management Systems, Computer Architecture and Organization, Linear Algebra, Operating Systems, Software Engineering, Web Technology(HTML/CSS), Python

EXPERIENCE

Stellantis   May 2024 – August 2024
Information Communication Technology Intern   *Auburn Hills, MI*

- Developed a **Gen AI** Data Analysis Application that utilized **C#**, a **.NET Framework**, **LLM models** and **Elastisearch** to pull live data from European Servers to analyze them, with the addition of analyzing stagnant data through **CSV** file. This reduced a 30 minute process into a 3-4 minute process leading to a 90% reduction in time.
- Identified and fixed LLM issues, implemented tool and **agent bindings**, and improved **prompt engineering** for accurate **AI interactions** across multiple platforms(**AWS Bedrock, OpenAI, Microsoft Azure**).
- Analyzed **refactor strategies** for Stellantis' **mainframe migration** to the **cloud**. Participated in vendor meetings with **AWS, Google Cloud**, and **Microsoft Azure** to evaluate **cloud technologies** and find solutions for **legacy system modernization**.(**AWS Bluage, AWS Proserve**)

Humble Funding   June 2024– August 2024
CEO/Founder   *Ann Arbor, MI*
- Created the **infrastructure** for the registration and login system on Humble Funding's main website, using **AWS Cloud services** (**AWS RDS, MySQL, AWS SES**).
- **Refactored** an **integration layer** using **Javascript** to establish a connection with an existing **database**(AWS RDS). Deployed **API** endpoints for retrieving and sending user information to AWS RDS, this reduced previous connection speeds by 50%. This also made secure and efficient **data handling** for **user authentication**.
- Started an affiliate portal for Humble Funding affiliates to track the number of redeems from their affiliate code. This used Stripe **web-hook** events to pull information for specific coupon code redemption's.(**React.js**, Stripe Developer Dashboard)

AWS-Club Chat Application | *AWS Amplify, AppSync, Cognito, DynamoDB, JavaScript, React*   September - Oct 2023
- Programmed a real-time messaging platform for the **AWS Cloud** Club Board using **JavaScript, AWS Amplify, AppSync**, and **Amazon Cognito** to improve communication during events, ensuring **scalability** and **security**.
- Built a secure and **scalable infrastructure** using **AWS Amplify**, **AppSync** for **real-time data synchronization**, and **Amazon Cognito** for **user authentication** and **access control**.
- Leveraged **data storage** in Amazon DynamoDB, following **Infrastructure as Code** (IaC) principles via AWS CloudFormation, utilizing **serverless architecture**, and integrated **front-end** components using **React.js** to enhance **scalability**, **performance**, and **maintainability**.

AI Data Analysis Application | *Streamlit, Open-AI, Lang chain, Pandas, Plotly*   August 2024
- Developed a **data analysis application** using **OpenAI's GPT model** integrated with **LangChain**, enabling efficient **natural language query processing** to deliver insights directly from the dataset.
- Processed and **transformed datasets** using **Pandas** for data cleaning, organization, and **feature engineering** to prepare for deeper analysis.
- Created **interactive data visualizations** using **Plotly** and built an intuitive **user interface** with the **Streamlit framework** to enhance **user experience** and data interaction.

TECHNICAL SKILLS

Programming Languages/Frameworks: Python, C++, Javascript, Java, HTML/CSS, React, MySQL, PostgreSQL, Bash
Certifications: AWS Foundational Cloud Practitioner, AWS Associate Certified Developer
Software & Operating Systems: Git, GitHub, VS Code, Visual Studio, IntelliJ, Linux, Windows, Mac OS, Microsoft Word, Microsoft Office, Excel, and PowerPoint, AWS Service Catalog, .NET, R

LEADERSHIP

Wayne State AWS Cloud Club (Captain): Appointed by **Amazon Web Service** as the first **cloud computing club** in Michigan. Led technical aspects including projects, workshops, and lectures for Wayne State's AWS Cloud Club. Developed and implemented a comprehensive AWS Cloud curriculum for a freshman-level college course, encompassing interactive lectures, and hands-on workshops aimed at introducing students to cloud computing fundamentals.