Usman Asghar

US Citizen | Chicago, IL | 847-924-0948 | usmanasghar2121@gmail.com | Linkedin | GitHub

Education

University of Illinois at Urbana-Champagin   Graduation: December 2026
Masters of Science in Computer Science   *Champagin, IL*
- **GPA:** 4.00 / 4.00
- **Relevant Coursework:** Data Visualization, Database Systems, Theory and Practice of Data Cleaning

University of Illinois at Chicago   Aug 2022 - May 2025
Bachelor of Science in Computer Science   *Chicago, IL*
- **GPA:** 3.77 / 4.00
- **Relevant Coursework:** Database Systems, Data Science, Artificial Intelligence, Data Structures, Computer Algorithms, Systems Programming, Machine Organization, User Interface Design, Economics and Computation

Technical Skills

Languages: Python, SQL, C/C++, Java, JavaScript, HTML, CSS, R
Developer Tools: AWS, Git/GitHub, Tableau, Excel, Firebase, Vite, Unix, OpenRefine, Neo4j
Libraries: Pandas, Seaborn, Scikit-learn, Matplotlib, NumPy, Plotly.express, React
DataBases: MySQL, MongoDB, Oracle

Experience

UIC Technical Help Desk   July 2023 - Aug 2023
Technical Analyst   *Chicago, IL*
- Optimized workforce scheduling during peak periods by analyzing over 6 months of support ticket data and implementing predictive analytics, resulting in a **25%** improvement in average response times.
- Led the design and deployment of a ticketing system used by a team of 10 technicians, decreasing ticket resolution time by **35%** and improving team coordination.
- Troubleshot hardware and software issues across multiple OS environments, reducing system downtime and increasing user productivity.
- Enhanced inventory management by maintaining accurate stock levels and reducing shortages using inventory management software to track IT assets.

Projects

FridgeFlow | *React, Firebase, Vite, HTML, CSS*   GitHub
- Developed a responsive web app using **React**, **HTML**, and **CSS** to manage shared fridge inventory, featuring real-time chat and automatic expiration tracking used by **40 households**
- Integrated **Firebase Firestore** for real-time data syncing across inventory, shopping lists, and messaging, ensuring consistency for all users.
- Boosted development and app performance by configuring **Vite** for fast bundling and hot module replacement.

Website Audience Analysis | *Python, SQL, Tableau*   GitHub
- Performed advanced data analysis using **SQL** and **Python** to query, clean, and process large datasets, uncovering actionable insights on audience engagement for Grammy.com.
- Created interactive **Tableau** dashboards to visualize trends and audience metrics, enabling data-driven decisions for The Recording Academy.
- Collaborated with cross-functional teams to design and analyze A/B tests, clearly communicating results through data visualization and programming tools.

Battleship | *Java, JavaFX, Maven, CSS*   GitHub
- Developed a multi-threaded server-client system in **Java** using TCP protocols to enable real-time messaging and user interactions during gameplay.
- Built a responsive client GUI with **JavaFX**, featuring live chat, user status updates, and custom UI components to enhance the user experience.
- Implemented server-side back-end logic to manage multiple client connections, session handling, and asynchronous messaging, ensuring scalability and high performance.