

Usman Asghar

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Education

University of Illinois at Urbana-Champaign

Graduation: December 2026

Masters of Science in Computer Science

GPA: 4.00 / 4.00

- **Relevant Coursework:** Software Engineering, Applied Machine Learning, Computer Security, Data Visualization

University of Illinois at Chicago

Aug 2022 - May 2025

Bachelor of Science in Computer Science

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, R, C/C++, Java, JavaScript, HTML, CSS

Developer Tools: AWS, Git/GitHub, Tableau, PowerBI, Excel, Firebase, Vite, Unix

Libraries: Pandas, Seaborn, Scikit-learn, Matplotlib, NumPy, Plotly.express, React

Databases: MySQL, MongoDB, PostgreSQL, Oracle, NoSQL

Experience

Burhan Academy

June 2025 – Present

Software Engineer

Elgin, IL

- Built a school dismissal system that cut down pickup time from 1 hour to 15 minutes using Firebase and JavaScript.
- Built a responsive website using JavaScript, HTML, and CSS, improving load times and user experience.
- Developed a class scheduling tool that streamlined timetable creation for teachers, saving staff 10+ hours per week.

Global Career Accelerator Program

May 2024 – August 2024

Data Analyst

Chicago, IL

- Solved business problems with SQL and Python through exploratory analysis and statistics to generate insights.
- Optimized complex SQL queries to extract, filter, and transform large datasets efficiently.
- Used Pandas and NumPy for data cleaning and analysis, and built dashboards in Tableau to present findings.

UIC Technical Help Desk

Jun 2023 - Aug 2023

Technical Analyst

Chicago, IL

- Improved workforce scheduling by analyzing 6+ months of support ticket data and applying predictive analytics, boosting response times by **25%**.
- Designed a ticketing system for 10 technicians, improving task assignment cutting resolution times by **35%**.
- Resolved software issues across multiple OS environments helping reduced downtime for over 1000 students.

Projects

Real Estate Rental Data API Platform | JavaScript, TypeScript, SQL, CSS, AWS, MySQL, Stripe

- Developed a comprehensive real estate rental data API platform using Node.js, Express, and React with TypeScript, enabling users to access rental market data across 100+ cities with real-time updates and historical trends.
- Implemented secure user authentication system with JWT tokens, bcrypt password hashing, and AES-256 encryption, ensuring enterprise-level security for sensitive user data and API endpoints.

NFL Team Performance Dashboard | Python, JavaScript, SQL, HTML, CSS

- Developed an interactive NFL team performance dashboard using JavaScript, which led to a comprehensive visualization of 22 years of NFL data with three distinct analytical views.
- Built responsive user interface controls using HTML, CSS3, and JavaScript that allow users to seamlessly switch between different visualization scenes and filter data by team and year.

Academic Database Dashboard | Python, MySQL, MongoDB, Neo4j, HTML, CSS, Dash, Plotly, Pandas, NumPy

- Developed a multi-database academic dashboard using Dash/Plotly that enabled faculty collaboration discovery and research trend analysis resulting in real-time data visualization.
- Built cross-database synchronization system using Python transactions and graph operations that maintained data consistency across MySQL, MongoDB, and Neo4j.