

YUSUF KHAN

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EDUCATION

University of Houston, College of Natural Science and Mathematics

Bachelors of Science in Computer Science | Minor in Management Information Systems | **3.88 GPA**

May 2026

Honors & Awards: Honors Dean's List Distinction, Honors College Outstanding Student

Relevant Coursework: **Algorithms and Data Structures, Computer Architecture, Database Systems, Operating Systems**

EXPERIENCE

ConocoPhillips – *Incoming Software Engineering Intern*

Summer 2025

HCSS – *Credentials Software Engineering Intern*

January 2025 - Present

- Developing a company-wide internal form using **React** and **C#** to grant/edit product access for **4,000+** companies.
- Designing in **Figma** and working with the UI team to meet design standards and improve customer usability.
- Implementing the page in React, updating legacy Razor and .NET code to ensure functionality and compatibility.

HCSS – *API Product Management Intern*

August 2024 - January 2025

- Developed API guides in collaboration with **10+** SMEs, improving the depth and clarity of technical documentation.
- Streamlined customer workflows across API endpoints, reducing support call volume by **15%** through clearer guides such as Costs for Cost Code and [User Setup](#).

SEP Data Structures Workshop – *Facilitator*

December 2023 - Present

- Guided **400+** students through advanced data structures and algorithms curriculum in C++, achieving an **85%** pass rate.
- Created comprehensive study materials and practice problems that increased exam scores by **10%** over the average.
- Designed and led weekly interactive workshops for groups of **30+** students, implementing live coding sessions and algorithmic problem-solving exercises.

Waste Management – *Business Optimization Intern*

June 2024 - August 2024

- Validated and verified service availability across **1,500+** zones on WM.com, preventing inaccurate bulk pickup orders.
- Enhanced chatbot performance with **AWS Lex** and **Snowflake** data analysis, improving automated customer service.
- Created **50+** SQL scripts that analyzed chatbot performance, uncovering a **9.31% increase** in interaction volume from recent features, enabling the team to measure product impact.

PROJECTS

ConocoPhillips Innovation Challenge | *Python, REST API, Machine Learning*

- Utilized a supervised binary classification approach with SVC and Logistic Regression to predict oil drill failures.
- Conducted EDA to identify key patterns and trends in drilling operations, enhancing feature selection for the models.
- Integrated ConocoPhillips' internal **REST API** to retrieve and process **8,000+** data points, streamlining data extraction and improving model training efficiency.

[DropAwf](#) | *Azure, React.js, HTML, CSS, MySQL, Git*

- Led a 5-person development team in creating an enterprise-level postal management system using **Azure** hosting.
- Implemented **SQL** queries and triggers to enhance parcel tracking and address customer complaints within the system.
- Optimized SQL queries, resulting in **45%** faster data retrieval and improved responsiveness for mass parcel tracking.

SKILLS

Languages: Python, JavaScript, Java, C++, SQL, Swift, TypeScript, HTML/CSS, R

Libraries & Frameworks: React.js, Node.js, Express.js, Next.js, TailwindCSS, SwiftUI

Tools & Platforms: Git/GitHub, Azure, VSCode, IntelliJ, XCode, Firebase, MySQL, Cloudflare Workers/Workers AI, Jest

INVOLVEMENT & AWARDS

ION Student Ambassador

August 2024 - Present

- Lead student engagement initiatives at Ion, organizing events that connect students with industry professionals in tech.

Eagle Scout - *Awarded by Boy Scouts of America*

August 2012 - Present