

# Mohammed Chauhan

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<https://moexe.netlify.app/>

## EDUCATION

### The University of Texas at Dallas

Bachelor of Science in Software Engineering

Graduation December 2026

## SKILLS

**Languages:** Java, Python, C++, HTML/CSS/JavaScript

**Libraries and Frameworks:** React, Gatsby, Node.js

**AI & Machine Learning:** TensorFlow, PyTorch

**Tools and Platforms:** Git, Git Bash, AWS

**Design Tools:** Sketch, Figma, Photoshop

### Core Abilities:

- Object Oriented Programming
- Database Design & Development
- UML Diagrams & Design Patterns
- MERN and LAMP stack development

## PROFESSIONAL EXPERIENCE

### HackerOne

August 2021 – Current

#### Bug Bounty Hunter

- Conducted SSRF and IDOR testing on cloud-based services (AWS, GCP) within scope, identifying insecure configurations that exposed internal metadata endpoints.
- Leveraged tools like Burp Suite and custom Python scripts to automate reconnaissance and fuzzing, reducing workload by 60% during asset discovery and vulnerability triage.
- Performed in-depth source mapping and JavaScript analysis using browser dev tools and LinkFinder, uncovering hidden endpoints and expanding attack surface visibility.

## PERSONAL PROJECTS

### F1 Prediction

- Built an end-to-end race prediction system using Gradient Boosting and FastF1 telemetry, processing lap and sector times into a structured dataset that enabled sub-1 second MAE across multiple circuits.
- Implemented modular ML components for data ingestion, model training, evaluation, and inference, laying the foundation for scalable deployment and monitoring in future real-time prediction systems.
- Automated data extraction, transformation, and feature engineering for race telemetry and weather data using caching, API integration, and fault-tolerant merging logic, enabling continuous updates to prediction pipelines.

### Crowd Advisor

- Developed a full-stack financial analytics platform using React, Gatsby, and Node, integrating real-time data from Twitter and Finnhub APIs to provide investors with social sentiment and market insights.
- Deployed serverless backend functions with Firebase Cloud Functions to efficiently handle API requests for sentiment analysis and financial data aggregation, supporting a scalable and low-latency architecture.
- Designed a dynamic data visualization and live content feeds, enabling users to view trending financial news and sentiment shifts across stocks and cryptocurrencies—reducing manual research time by over 50%.

### Automated Shopping Bot

- Developed a headless browser automation using undetected\_chromedriver and selenium-stealth to bypass bot detection and interact with dynamic JavaScript-driven elements.
- Engineered a product availability monitoring system that uses WebDriverWait, XPath/CSS selectors, and JS event dispatching to automate complex UI flows.
- Implemented an automated alert system using smtplib with TLS encryption, with modular SMTP configuration and fail-safe error handling for real-time notifications.

## ORGANIZATIONS

### Pakistani Student Association, University of Texas at Dallas

January 2023 - May 2024

#### Vice President and Event Coordinator

- Maintained communication with the President and higher-ups to discuss goals of the organization and event information.