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EDUCATION

The University of Texas at Dallas   **Graduation December 2025**
Bachelor of Science in Software Engineering

SKILLS

Languages: Java, Python, C++, HTML/CSS/JavaScript   *Core Abilities:*
Libraries and Frameworks: React, Gatsby, Node.js
- Object Oriented Programming
AI & Machine Learning: TensorFlow, PyTorch
- Database Design & Development
Tools and Platforms: Git, Git Bash, AWS
- UML Diagrams & Design Patterns
Design Tools: Sketch, Figma, Photoshop
- MERN and LAMP stack development

PROFESSIONAL EXPERIENCE

HackerOne, *Bug Bounty Hunter*   **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.