SYED OMER HUSSAIN

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SUMMARY

A passionate Computer Science graduate student specializing in Data Analytics and Machine Learning. Passionate about engineering practical solutions for complex data challenges, with hands-on experience enhancing model accuracy and optimizing system performance.

EDUCATION

- **Master of Science, Computer Science |** Governors State University, Chicago, IL | Expected May 2027
- **Bachelor of Engineering, Information Technology** | Osmania University, Hyderabad, India | June 2025

TECHNICAL SKILLS

- Languages & Databases: Python, Java, C/C++, SQL, JavaScript, HTML/CSS, MySQL, SQL Server
- Frameworks & Tools: TensorFlow, Pandas, NumPy, Django, Git, MS Excel

PROFESSIONAL EXPERIENCE

Data Analyst Intern | DATAPOINT IT & HARDWARE PVT. LTD | Hyderabad, India | Jan 2024 – Feb 2024

- **Enhanced** a fraud detection model's accuracy by 18% and **reduced** false positives by 12% by **analyzing** and preprocessing a dataset of over 500,000 transactions.
- **Engineered** and **integrated** Django-based APIs to **streamline** data workflows, **achieving** a 25% faster system response time.

Web Developer Intern | PANTECH E LEARNING PVT. LTD | Hyderabad, India | May 2024 – Jun 2024

- **Developed** a secure Online Crime Reporting System for over 500 users by **designing** and **implementing** a high-performance SQL backend to ensure data integrity and reliability.
- **Revitalized** user interface performance by **optimizing** front-end code, **expediting** page load times by 40%.
- **Collaborated** within a 3-person development team, **utilizing** Git for version control to maintain code quality and ensure seamless project integration.

PROJECTS

Speech Enhancement using Residual CNN

- **Improved** audio intelligibility by 22% and increased the Signal-to-Noise Ratio (SNR) by 7 dB by **designing** and **training** a Residual CNN model to **clarify** speech signals from noisy audio.

Static Keystroke Dynamic Authentication (SKDA)

- **Devised** a novel authentication system that leverages unique user keystroke patterns, **achieving** a 93% verification accuracy.

QR Code Pixelated MFA for Wireless Security Applications

- **Engineered** a novel multi-factor authentication (MFA) protocol for wireless security, utilizing a QR code-activated pixelated antenna as a unique physical-layer authentication factor; this method demonstrated a 98% success rate against simulated spoofing and replay attacks.

ACHIEVEMENTS & INTERESTS

- **Published** research in the International Journal of Scientific Development and Research (IJSDR).
- **Attained** 2nd place in a DXC Technology competition for **designing** an educational game in Scratch.
- **Guided** over 30 students in building foundational skills in mathematics and computer science.
- **Completed** Harvard's CS50P certification for advanced Python programming