Safdar Nizam Mohammed

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Education

Florida Atlantic University *Boca Raton, FL*
Masters in Computer Science *Expected Graduation: Dec 2025*
Osmania University *Hyderabad, India*
Bachelors of Engineering in Computer Science *Sep 2019 - Aug 2023*

Work Experience

MaanPaa INTL PVT.LTD. *Hyderabad, India*
Cybersecurity Analyst *Sep 2022 – Feb 2023*

- Deployed advanced network monitoring tools (Wireshark, Snort) to detect and mitigate external threats, reducing breach attempts by 30%.
- Conducted vulnerability assessments using Nessus, strengthening critical systems and enhancing compliance with security policies.
- Collaborated with IT teams to implement firewall solutions (Cisco ASA) and strengthen system hardening techniques, improving infrastructure resilience.

Bio-Metric Health Records (Startup) *Hyderabad, India*
Research and Development Team Lead *May 2022 – Aug 2022*

- Spearheaded the development of a blockchain-based health records management system using Hyperledger, enhancing data privacy and reducing breaches by 35%.
- Managed a cross-functional team of 5 developers, coordinating project timelines and tasks with Jira, resulting in the secure management of 10,000+ patient records across 3 pilot hospitals.
- Researched and integrated privacy protocols (RSA encryption, SHA-256), improving patient data security by 20%.

Focus Softnet *Riyadh, Saudi Arabia*
Software Development Intern *Jun 2021 – Sep 2021*

- Engineered ERP modules using Python and MySQL, improving data processing speed by 15% for international client operations.
- Troubleshot and resolved software bugs in collaboration with cross-functional teams, reducing customer-reported issues by 30%.
- Optimized data integrity across client databases by implementing robust database management systems, increasing data accuracy by 25%.

Projects

Neural-Symbolic Hybrid Intelligence System for Scientific Discovery *4 months*
Tools used: : Python, PyTorch, TensorFlow, GNN, Transformers, Reinforcement Learning

- Integrated GNNs and Transformer models for material property prediction and scientific paper parsing, speeding up experiment design by 30%.

Decentralized AI Marketplace with Blockchain *2.5 months*
Tools used: : Blockchain, Hyperledger Fabric, Federated Learning, Homomorphic Encryption

- Developed a decentralized AI marketplace using Hyperledger, facilitating the secure exchange of AI models and data across multiple parties.

Dark Net Traffic Detection System *6 months*
Tools used: : Python, XGBoost, CNN-GRU, Attention Mechanism

- Constructed a darknet traffic detection system using XGBoost and CNN-GRU to classify encrypted network traffic, improving anomaly detection accuracy by 35%.

Certifications

- Cisco Certified DevNet Associate
- IBM Data Science Professional Certificate
- Google Data Analytics Professional Certificate
- AWS Certified Cloud Practitioner
- Microsoft Certified: AI Fundamentals

Skills

- **Technical Skills:** Python, SQL, Java, TensorFlow, PyTorch, Power BI, Tableau, MySQL, AWS, Docker, Kubernetes, Hyperledger, Federated Learning
- **Tools & Technologies:** Microsoft Excel, Pandas, Matplotlib, Nessus, Wireshark, Git, Jira, Trello