

MOHAMMED ABRAR ABDULLAH

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Education

Osmania University, Hyderabad, India

Dec. 2020 – June 2024

B.E in Information Technology

Grade - A

Relevant Coursework

- CompTIA A+
- Embedded Systems
- CCNA
- Cryptography
- CEH
- Microprocessor
- Penetration Testing
- Machine learning

Experience

Experian Services

October 2024 – Present

Software Engineer

Hyderabad, India

- Analyzed transaction data to generate actionable insights, improving fraud detection and access control mechanisms. Ensured compliance with best practices for secure data transmission and storage.
- Designed and developed robust APIs using Ruby on Rails to ensure secure access and data integrity for banking products, focusing on safeguarding against unauthorized activities and enhancing overall system reliability
- Acquired expertise in secure API development, threat modeling, and access management, leveraging industry standards to strengthen the security of banking applications.

Experian Services

April 2024 – September 2024

Software Engineer Intern

Hyderabad, India

- Gained practical expertise in secure API interactions, authentication protocols, and vulnerability assessment, contributing to the overall integrity of banking fraud prevention products.
- Conducted comprehensive testing of fraud detection systems in banking, focusing on API response analysis and secure access verification using Postman. Identified potential vulnerabilities to enhance the robustness of systems against unauthorized activities.

Projects

EMLNIDS / *Python, Machine Learning, Zeek, Redis, Docker*

May 2024 [LINK](#)

- Designed and developed "EMLNIDS," a machine learning-based IDS/IPS system that identifies malicious behaviors in network traffic using behavioral analysis.
- Enabled real-time traffic analysis and detection capabilities through integration with tools like Suricata, Zeek, and Argus, enhancing endpoint security for Linux, MacOS, and Windows environments.
- Leveraged threat intelligence feeds, expert heuristics, and modular Python design to detect targeted attacks, command & control channels, and peer-to-peer (P2P) network threats.

Password Manager / *Java, AES Encryption, Secure Storage, CLI Development*

September 2023 [LINK](#)

- Designed and developed a secure password management application with AES encryption to ensure confidential storage and retrieval of sensitive credentials.
- Implemented core features such as adding, encrypting, retrieving, and decrypting passwords, providing secure access through a user-friendly console-based interface.
- Enhanced usability by introducing site-based password categorization, search functionality for quick access, and expiration reminders for improved security practices.

Technical Skills

Languages: C/C++, JavaScript, Python, Ruby, Java, SQL

Cybersecurity Tools: Wireshark, Nmap, Metasploit, Burp Suite, Nessus, Kali Linux, Splunk, Netcat, Tcpdump

Technologies/Frameworks: Linux, GitHub, Fast API, ReactJS, ExpressJS, NodeJS, Django, Flask

Soft Skills: Analytical Thinking, Problem-Solving, Team Collaboration, Time Management, Research, Documentation.

Areas of Interest: Network Security, Penetration Testing, Threat Intelligence, Vulnerability Assessment

Certifications

- **Certified Network Associate** [View Certificate](#)
- **Certified Ethical Hacker** [View Certificate](#)
- **CompTIA Security+** [View Certificate](#)
- **CompTIA A+** [View Certificate](#)
- **SQL Injection** [View Certificate](#)
- **Web Development Bootcamp** [View Certificate](#)