

# Saishiva Akula

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## SUMMARY

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Motivated engineering graduate with a strong foundation in Python, SQL, and Java, along with solid knowledge of computer networking. Passionate about cybersecurity and eager to apply technical skills in areas such as network analysis, threat detection, and security automation to contribute effectively in a dynamic cyber defense environment.

## PROJECTS

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### Threat Intelligence Dashboard - [Github](#) *Python, SQLite, Requests, Pandas, Plotly* [Demo](#)

- Engineered a real-time threat intelligence aggregation platform using Python and Streamlit to centralize IOC (Indicator of Compromise) and CVE telemetry from AbuseIPDB, AlienVault OTX, URLhaus, and NVD.
- Architected a robust data ingestion pipeline backed by SQLite, implementing exhaustive exception handling and logging workflows to ensure system resilience against upstream API latency or rate limits.
- Designed an interactive IP Reputation Checker and CVE Severity Tracker, correlating multiple disparate threat streams into actionable security profiles for immediate analyst triage.
- Integrated Plotly to develop dynamic interactive visual analytics, including geospatial mapping and threat distribution, enabling rapid pattern recognition within large intelligence datasets.
- Secured application credentials and REST API keys using `.env` configuration and Streamlit secrets management, deploying the production-ready application to Streamlit Cloud.
- Developed automated CSV export functionality to streamline the transfer of filtered threat indicators into downstream SIEM platforms and security appliances.

### Library Management System - [Github](#) *Java, springboot, MySql, MongoDB, Postman* [Demo](#)

- Developed a full-stack **Library Management System** using **Java Spring Boot 3.x** with RESTful APIs to manage books, members, and borrowing transactions.
- Implemented a **polyglot persistence architecture** using **MySQL** for relational data and **MongoDB** for flexible document storage such as activity logs and book metadata.
- Built scalable backend services using **Spring Data JPA** and **Spring Data MongoDB** with the repository pattern, reducing boilerplate code using **Lombok**.
- Enforced robust API validation using **Bean Validation** annotations (`@Valid`, `@NotNull`, `@Size`) and designed RESTful endpoints following standard **GET, POST, PUT, DELETE** conventions.
- Structured the application using a **layered architecture** (**Controller** → **Service** → **Repository**) and improved development efficiency with **Spring Boot DevTools** hot-reload.

## EDUCATION

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**Bachelor of Technology (B.Tech), Electronics and Communication Engineering** 2019 – 2023  
Nalla Narasimha Reddy Education Society's Group of Institutions, Hyderabad

## CERTIFICATIONS

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- **Microsoft Certified: Azure AI Fundamentals (AI-900)** 2025  
[View Certificate](#)  
Gained foundational knowledge of AI, ML, Responsible AI, and hands-on exposure to Azure Cognitive Services and Azure ML.
- **Python for Data Science, AI & Development – Coursera** 2025  
[View Certificate](#)  
Learned Python for data analysis, visualization, SQL interaction, and built small AI/ML workflows using scikit-learn.

## SKILLS

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**Programming & Data:** Python, Java, SQL, Javascript

**Libraries:** NumPy, Pandas, Matplotlib, plotly, Seaborn,

**Software & Tools:** Git, Github, VScode, RestAPI,

**Databases :** MySQL,