

# Girish Kumar Souki

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## Professional Summary

Software Engineer II delivering mid-level expertise in building scalable full-stack and AI-enabled systems. Designed high-volume data ingestion pipelines with LLM-based entity extraction and created secure production APIs that increased platform adoption. Led full-stack feature development using React and TypeScript to improve data exploration workflows. Seeking to apply this experience to drive robust, data-driven products for the organization.

## Core Skills

- **Languages:** Python, TypeScript, JavaScript, Java
- **Frontend:** React, Angular, HTML, CSS, Tailwind, Bootstrap
- **Backend:** Node.js, Flask, Spring Boot, REST APIs, fast AP
- **Databases:** PostgreSQL, MongoDB, MySQL, Oracle, Firestore
- **AI / Data:** LLMs (Ollama, vLLM), NLP, Web Scraping, Data Extraction, Data Normalization
- **Cloud & DevOps:** GCP, CI/CD, Jenkins, GitHub
- **Security:** OWASP ZAP, Burp Suite, Secure API Design
- **Tools:** Jira, Postman, Git, Notation, Databricks

## Professional Experience

### Reliance IQ

Jul 2025 - Present

#### Software Engineer II

Chicago, IL

- Design and implement scalable ingestion pipelines with Python and Flask to extract, validate, and structure high-volume web-based pricing and vendor data, reducing data onboarding time and improving downstream processing reliability
- Applied LLM-based NLP for entity extraction, metadata tagging, and normalization to improve data quality and downstream usability.
- Build secure, production-ready backend APIs with Node.js, Python, and Git that enable internal intelligence platforms to handle requests faster and with higher reliability
- Developed full-stack features using React and TypeScript to enable efficient data exploration, search, and filtering workflows.
- Partnered with product and design teams to ship dashboards and workflow improvements that increased platform adoption.
- Evaluated scraping frameworks, AI models, and third-party APIs using Git and Flask, which guided architecture choices that enhanced system scalability and made future maintenance easier

### Itvedant Education Pvt. Ltd.

Jan 2023 - Aug 2023

#### Software Developer

Hyderabad, India

- Migrated a legacy monolithic application to a Spring Boot microservices architecture using Docker containers and 12-factor app principles, which improved reliability, reduced deployment time by 30%, and enabled independent scaling of services.
- Designed and implemented RESTful APIs with Spring MVC and JPA, integrating them with MySQL databases, which delivered a modular backend that supported a 25% increase in concurrent users
- Enabled asynchronous service communication using Apache Kafka to improve reliability and performance.
- Improved application observability by migrating logging from Log4j to Logback.
- Contributed to Agile Scrum delivery through sprint planning and issue tracking in Jira, helping the team complete sprints on schedule and reduce open defects by 20%

### IvyCompTech

Sep 2021 - Nov 2022

#### Trainee Software Engineer

Hyderabad, India

- Developed backend services for a high-traffic online gaming platform using Java and Spring Boot, enabling the system to handle thousands of concurrent users
- Built RESTful APIs with Spring Boot and JAX-RS in Java, delivering transactional and user-facing services that reduced response time for client requests
- Supported the migration to microservices with Spring Boot, improving system modularity and scalability, which allowed independent deployment of new features
- Used Dynatrace to monitor application performance, quickly pinpointing production issues and restoring service stability
- Developed backend components with Spring MVC, Hibernate, and JDBC, applying dependency-injection patterns that simplified code maintenance and reduced bugs

## Projects & Research

### AI-Powered Secure Data Intelligence Platform

- Designed and built an end-to-end AI-driven system that crawls, extracts, validates, and structures unstructured web data using LLMs.
- Implemented secure ingestion workflows, entity validation logic, normalized data models, role-based access controls, and secure APIs.

### LLM-Enhanced Biometric Security System

- Developed a fingerprint recognition pipeline using LLM-assisted feature analysis and intelligent data augmentation.
- Built Python evaluation workflows to improve matching robustness against noisy biometric inputs.

### Enterprise Security Architecture (Capstone)

- Designed and implemented an enterprise-grade security architecture in Eve-NG, including firewall policies, VPN configuration, network segmentation, NAT, and cloud server integration using defense-in-depth principles.

## Education

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**Eastern Illinois University**

*Master of Science, Cybersecurity*

**Aug 2023 - May 2025**

*Charleston, IL*

**Holy Mary Institute of Technology & Science**

*Bachelor of Science, Computer Science*

**Jun 2017 - Jun 2021**

*Hyderabad, India*

## Certifications

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- Databricks Certified Generative AI Engineer Associate: Databricks Certified Generative AI Engineer Associate • Girish kumar souki • Databricks Badges