

# SHANOLI SILVA

## SOFTWARE ENGINEER



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### SUMMARY

AI enthusiast with hands-on experience in Retrieval-Augmented Generation (RAG), Agentic AI, and knowledge graphs. Proficient in full-stack development with exposure to scalable, secure software systems across the entire SDLC. Demonstrated ability to deliver user-centric, innovative AI solutions in fast-paced, cross-functional environments. Passionate about applying emerging technologies to solve real-world problems.

### WORK EXPERIENCE

<b>Zafer (AI) - Associate Software Engineer</b>	<b>Nov 2024 – Present</b>
<ul style="list-style-type: none"><li>• Worked closely with the CTO to design, build, and deploy production-grade AI features: AI Summarizer, AI Document Chat, AI Search, AI Autofill, AI Insight, AI Summary Language Translator, MCP Integration with AI Search.</li><li>• Developed A2A Integration with AI Search, enabling users to chat with entire folders using RAG (Retrieval-Augmented Generation) techniques.</li><li>• Led a team of 4 in developing a collaborative document commenting system with Google Docs - like real-time features.</li><li>• Deployed AI services across Dev, QA, and pre-prod environments with strong focus on debugging containerized systems.</li><li>• Maintained high delivery accuracy by applying unit testing, observability tools (e.g., Zipkin, ELK), and feedback from QA/CEO.</li><li>• Contributed to the Model Engineering project using Angular and backend APIs - showcasing adaptability across the stack.</li><li>• Participated in the MongoDB Vector DB Migration Workshop to enhance understanding of embedding storage and vector search optimization.</li><li>• Attended the AWS Bedrock Workshop, gaining practical experience in integrating foundational models into enterprise AI workflows</li></ul>	
<b>ZorroSign Inc - Intern Software Engineer</b>	<b>May 2024 – Oct 2024</b>
<ul style="list-style-type: none"><li>• Shipped production-ready code in collaboration with BAs, DevOps, and senior engineers.</li><li>• Wrote 200+ unit tests for Notification Service, increasing coverage by 90% and improving code maintainability.</li><li>• Contributed to the AI Document Autofill feature to detect and insert fillable fields in user documents.</li><li>• Integrated LangChain with vector databases to build AI document assistant POCs.</li><li>• Built a full-stack IoT Device Management System using Spring Boot and microservices with event-driven architecture, tracing, and logging.</li><li>• Implemented Kafka-based messaging, enabling asynchronous, decoupled communication between services.</li><li>• Designed system architecture and authored Architectural Decision Records (ADRs) for new features and system improvements.</li></ul>	

### EDUCATION

<b>BSc(Hons)In Information Technology , Computer Software Engineering - SLIIT</b>	<b>2021 - 2025</b>
<b>Primary and Secondary School - Holy Family Convent.Colombo 04</b>	<b>2007 – 2020</b>

## PUBLICATIONS

Software User Personalization through User Feedback and User Behavior  
**Journal of Information Systems Engineering and Management (ISSN: 2468-4376)**  
Status: Accepted – Publication in Progress

2025

## TECHNICAL SKILLS

**Programming Languages** : Python, JavaScript, TypeScript, SQL  
**Frontend** : React.js, Angular, HTML, CSS, UI/UX  
**Backend & Frameworks** : Spring Boot, Node.js, Express.js  
**Databases** : MongoDB, SQL, Vector Databases  
**AI & Emerging Tech** : RAG (Retrieval-Augmented Generation), AI, Software Architecture  
**DevOps & Tools** : Git, Docker, Kubernetes, Kafka, Zipkin, ELK Stack  
**Testing & Debugging** : Unit Testing, Debugging  
**APIs & Integration** : REST API  
**Development Practices** : Scalable System Design, Cross-functional Collaboration

## SOFT SKILLS

Communication, Problem-solving, Analytical thinking, Adaptability, Teamwork, Attention to detail, Proactiveness

## COURSES & CERTIFICATIONS

- Certification of One Million Prompts (DUBAI FUTURE FOUNDATION)
- Event-Driven Agentic Document Workflows (DeepLearning.AI)
- LangChain for LLM Application Development (DeepLearning.AI)
- Safe and reliable AI via guardrails (DeepLearning.AI)
- MongoDB for SQL Experts (MongoDB University)
- Certification of Cloud Computing Foundations (Great Learning)

## PROJECTS

- Software User Interface Personalization through User Feedback and User Behavior - University Final Year Reserch Project (Group, In-progress)
- Laundry Service Management Mobile Application (Individual)
- Income Expense Management Mobile Application (Group)
- Web application for a Vehicle Service Station (Group)
- Web Application for a Pharmacy Management System (Group)

## REFERENCES

**Name:** Mr. Ruwan Dissanayake

- **Post:** Associate Vice President-Engineering
- **Company Name:** Zafer (AI)
- **Company Address:** 160/1/1 , Nawala Road,Nugegoda
- **Email:**  
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**Name:** Mrs. Sahani Perera

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- **Company Name:** Sysco LABS
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