

Ravindu Wanasinghe

Full-Stack & AI Developer Intern

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🌐 LinkedIn 🐙 GitHub 🌐 Portfolio

PROFILE SUMMARY

Information Systems undergraduate at Sabaragamuwa University of Sri Lanka specializing in building production-ready Full-Stack applications and multi-agent AI systems. Proven experience engineering end-to-end architectures using React, TypeScript, Spring Boot, and Python, paired with agentic LLM pipelines (Gemini API, Groq, DeepSeek-R1) and vector search (ChromaDB). Recognized as 1st Runner-Up at the AURORA 2026 National AI Ideathon. Passionate about solving complex real-world workflows through scalable microservices and robust AI integration.

EDUCATION

BSc (Hons) in Information Systems | Sabaragamuwa University of Sri Lanka 2024 – Present

Relevant Coursework: Software Architecture, Object-Oriented Design, Web Development, Database Management Systems, Digital Forensics, Data Structures & Algorithms

G.C.E. Advanced Level (Physical Science) | Kegalu Vidyalaya, Kegalle 2021

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, Java, SQL

Frontend Development: React.js, Vite, Tailwind CSS, State Management, Responsive Web Design, REST API Integration

Backend & APIs: Spring Boot, Spring Security, Node.js, Express, RESTful APIs, JWT Authentication, Hibernate ORM

AI, Agents & Vector Search: Multi-Agent Systems, RAG Pipelines, ChromaDB (Vector Search), Gemini API, Groq, DeepSeek-R1, Ollama

Databases & DevOps: MySQL, Git, GitHub, Docker basics, Postman, Linux CLI, Cloud Deployment

KEY PROJECTS

ShadowSense Aurora – AI Anti-Scam Overlay | Team Lead 2026

🔗 Codebase | 1st Runner-Up — AURORA 2026 AI Ideathon

- Architected a privacy-focused intelligent browser layer designed to shield freelance developers from sophisticated phishing and escrow fraud on Upwork and Fiverr.
- Orchestrated a multi-agent consensus pipeline with 4 AI agents running on Groq, Gemini 2.0 Flash, and local DeepSeek-R1 via Ollama.
- Implemented RAG-assisted contextual risk analysis backed by ChromaDB vector similarity search to cross-reference emerging fraud vectors.
- Directed technical architecture and coordinated rapid agile sprints to deliver a deployable MVP within competition constraints.

Stack: Python, Fast-Inference APIs (Groq, Gemini), ChromaDB, Ollama, DeepSeek-R1, Multi-Agent Architecture

Galagama Gems – Full-Stack E-Commerce & AI Marketplace | Full-Stack / AI Dev 2025

🔗 Codebase

- Built an end-to-end digital marketplace platform featuring dynamic catalog filtering, real-time bidding, and client-side 3D jewelry customization.
- Integrated an LLM-driven conversational advisory agent for automated gemstone identification, valuation estimation, and market trends.
- Engineered type-safe frontend views using React and Tailwind CSS, consuming secure backend REST endpoints.

Stack: TypeScript, React, Tailwind CSS, Node.js, AI Integration, RESTful Web Services

 Codebase

- Developed an enterprise web application to track vehicle lifecycles, schedule preventive maintenance, and manage operational expenditures.
- Implemented secure role-based access control (RBAC) and stateless JWT user authentication with Spring Boot and Spring Security.
- Designed normalized relational schemas in MySQL with Hibernate ORM and built data export pipelines for automated Excel/PDF generation.

Stack: Java, Spring Boot, Spring Security, MySQL, Hibernate, React, Vite, Tailwind CSS

 Codebase

- Created an image verification tool to detect tampered financial records, invoices, and government identification cards.
- Applied computer vision routines including Error Level Analysis (ELA), high-frequency noise variance, and metadata integrity checks.

Stack: Python, Computer Vision / ELA, Image Processing, Digital Forensics

HONORS & CERTIFICATIONS

1st Runner-Up AURORA 2026 National AI Ideathon	2026
Gemini Certified Student Google for Education	2026
Introduction to Artificial Intelligence Simplilearn SkillUp	2026
Introduction to Prompt Engineering Simplilearn SkillUp	2026
Machine Learning Using Python Simplilearn SkillUp	2026
Certificate of Appreciation SabraXtreme 3.0 (IEEE Student Branch of SUSL)	2025

LEADERSHIP & ENGAGEMENT

Program Team Member IEEE Student Branch, SUSL	2025
Managed technical event platforms, tracks, and competitor communications for SabraXtreme 3.0.	
Treasurer – Project Green Sprout Rotaract Club of SUSL	2024 – 2025
Oversaw project budget planning, expenditure auditing, and accountability reports for community initiatives.	

REFERENCES

- Mr. YMS Tharaka, Lecturer (Probationary), Sabaragamuwa University of Sri Lanka
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- Mr. Chathura Manohara, Associate Tech Lead, Omobio (Pvt) Ltd
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