

# RANINDU AMARASINGHE

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## Career Objective

Software Engineering graduate with hands-on experience in Java and Spring Boot, building scalable backend systems and RESTful APIs. Experienced in JWT authentication, WebSockets, and Docker, with additional exposure to AI-driven development using LLMs and workflow automation (n8n). Seeking an internship or trainee software engineer role to contribute to modern, data-driven solutions.

## Technical Skills

**Backend:** Spring Boot, ASP.NET Core

**Languages:** Java, C#

**Frontend:** Next.js, React

**Databases:** MongoDB, SQL

**DevOps & Tools:** Docker, Git, GitHub Actions - CI/CD

**AI & ML:** Spring AI, LLM Integration, RAG, Embeddings, Prompt Engineering

**Automation:** n8n Workflow Automation

**Concepts:** REST APIs, JWT Authentication, WebSockets - STOMP

## Projects

2026

### **SentinelVault AI – AI-Powered Privacy System**

- Designed and developed an AI-powered document analysis system to detect sensitive data and classify privacy risk levels (LOW, MEDIUM, HIGH)
- Built an automated file-processing pipeline using **n8n workflows** to monitor folders and trigger real-time AI analysis
- Implemented **LLM-based content analysis** using Spring AI for extracting summaries and identifying sensitive information
- Developed a **Retrieval-Augmented Generation (RAG)** system using embeddings for semantic document search and question answering
- Optimized backend performance using content truncation, validation, and duplicate detection logic
- Enabled real-time alerts for high-risk documents via Telegram/WhatsApp

2026

### **AI-Powered Resume Screener | Spring Boot & .NET 8**

- Architected and implemented a cross-platform AI resume screening system in both **Spring Boot (Java)** and **ASP.NET Core (.NET 8)**
- Developed REST APIs to analyze resume PDFs against job descriptions using local LLM integration (Ollama)
- Implemented Docker containerization and automated CI pipelines via GitHub Actions

- 2026 **NPC-Verse AI, Local LLM Integration**
  - Developed a local AI-driven NPC system using **Spring Boot, Spring AI**, and **Ollama**.
  
- 2025 **Bus Buddy, Transport Tracking System Final Year Individual Project**
  - Designed and implemented a real-time transport tracking system using Spring Boot and WebSockets (STOMP)
  - Implemented JWT-based authentication for secure driver and admin access
  - Developed RESTful APIs for bus scheduling and fleet management
  
- 2025 **E-COMMERCE WEBSITE FOR SRI LANKAN HANDICRAFTS, MERN Stack**
  - Built a full-stack e-commerce platform for Sri Lankan handicrafts using the MERN stack
  - Developed a responsive React front-end and a secure Node.js/Express back-end with JWT authentication and RESTful APIs
  - Implemented real-time order tracking, PayPal payments, and CI/CD pipelines with GitHub Actions and Docker for seamless deployment
  
- 2024 **Educational purpose Social Media Web Application For University Students**
  - Developed a social media web application tailored for university students to share academic challenges, knowledge, and personal experiences
  - Users can post questions or issues related to their academic journey
  - Peers can engage by replying, offering solutions, or sharing insights, fostering a collaborative and supportive student community

## Education

2022 – 2025	<b>BSc (Hons) Software Engineering – Completed (2025)</b> <b>National School of Business Management</b> <ul style="list-style-type: none"> <li>• Affiliated with the University of Plymouth</li> </ul>	Homagama, Sri Lanka
2020 – 2022	<b>Foundation certificate in higher education</b> <b>National School of Business Management</b>	Homagama, Sri Lanka
2017	<b>GENERAL CERTIFICATE OF EDUCATION</b> <b>Gurukula College</b> <ul style="list-style-type: none"> <li>• ORDINARY LEVEL, Gurukula College</li> </ul>	Kelaniya, Sri Lanka

## Experience

Currently no formal industry experience. Built multiple production-style backend and AI systems through academic and personal projects, focusing on scalable architecture and real-world problem solving.

## **Memberships and Activities**

- FOSS Community NSBM (2022–2025)
- IEEE Student Branch NSBM (2022-2025)

## **Interpersonal Skills**

- Teamwork
- Leadership
- Problem-Solving & Critical Thinking
- Communication Skills
- Presentation Skills

## **References**

**Mrs. Pavithra Subashini**, *Head - Industry Collaboration Unit Senior Lecturer*, NSBM Green University  
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**Mr. Diluka Wijesinghe**, *Lecturer*, NSBM Green University  
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