

# SUYASH BALASUBRAMANIAM

AI Engineer | Red Hat Certified System Administrator

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## PROFESSIONAL SUMMARY

Final-year B.Tech (AI & Data Science) student with hands-on backend engineering experience across NestJS, Django, and Flask, building production systems that handle 1,000+ records with real-time notifications and role-based access control. Skilled in designing scalable REST APIs, relational schemas, and CI/CD workflows, with additional experience in RAG/LLM-based systems. Seeking a Software Engineer role to apply strong backend architecture and full-stack development skills in a production environment.

## TECHNICAL SKILLS

**AI / ML:** RAG, Agentic AI, YOLO, FAISS, LLM Deployment, PyTorch, TensorFlow, Model Fine-tuning, Azure OpenAI

**Languages & Frameworks:** Python, JavaScript, HTML/CSS, Django, Flask, NestJS

**Databases & DevOps:** PostgreSQL, MySQL, MongoDB, Supabase, Docker, Podman, Linux, Git, CI/CD, n8n

**Analytics & Automation:** Power BI, UiPath, Excel

## EDUCATION

**B.Tech — Artificial Intelligence & Data Science** 2023 – 2027

Sri Sairam Engineering College, Chennai | CGPA: 7.5 (through Semester VII)

## CERTIFICATIONS

- Red Hat Certified System Administrator (RHCSA) — Credential ID: 250-094-836

## PROFESSIONAL EXPERIENCE

**Software Development Engineer Intern** | GH Induction India Pvt Ltd, Chennai Mar 2026 – Jun 2026

- Engineered core NestJS backend modules for service ticket lifecycle management, architecting MySQL schemas to handle 1,000+ records, and integrated Firebase Cloud Messaging (FCM) push notifications for real-time technician alerts across Android devices.

**AI Product Developer** | Maestrominds, Chennai Mar 2024 – Mar 2026

- Architected a GenAI platform using Flask and Azure OpenAI, reducing inference latency by 25%.
- Developed a RAG-based coaching engine with FAISS achieving 95% adherence to dynamic frameworks (GROW, STAR).
- Built automated sentiment analytics covering 5+ communication metrics.

**Web Development Intern** | Saint-Gobain India Pvt Ltd (INDEC 4.0), Chennai Jan 2025 – Feb 2025

- Developed a full-stack enterprise asset management system using Django and PostgreSQL.
- Implemented Role-Based Access Control (RBAC) and complex relational schemas to secure business-critical inventory data.

**Data Analyst Intern** | Vebbox Software Solutions, Chennai Jul 2024 – Jan 2025

- Automated data ingestion pipelines using Python and UiPath, converting unstructured data into JSON formats to accelerate AI model training preparation.

## PROJECTS

**Coact.ai — AI-Powered Coaching Simulator** | Client Project, Maestrominds Mar 2026 – Present

- Built a GenAI coaching platform on Flask and Azure OpenAI with a RAG engine (FAISS) that adapts to coaching frameworks such as GROW and STAR.
- Added automated sentiment analytics across 5+ communication metrics to give coaches real-time conversational feedback.

**ThermoRevive — Electricity from Transformer Waste Heat** | Patent App. No. 202541114252 A, Published Jan 2026

- Invented a thermoelectric energy recovery system that converts transformer waste heat into usable DC electricity.
- Built a real-time CMS dashboard for sensor streaming, predictive maintenance, and hardware performance monitoring.
- Currently developing a ROS2-based digital twin to simulate and monitor system behavior in real time.

**Enterprise Asset Lifecycle Management System** | Intern Project, Saint-Gobain (INDEC 4.0) Jan 2025 – Feb 2025

- Engineered a scalable asset lifecycle platform with Django and PostgreSQL, managing 1,000+ records with full CRUD functionality and strict enterprise IT compliance.

**Service Request Management Platform** | Intern Project, GH Induction India Mar 2026 – Jun 2026

- Developed core NestJS APIs for service ticket operations, integrating FCM for real-time status updates across cross-platform mobile interfaces for field technicians.

## ACHIEVEMENTS & LEADERSHIP

- 2nd Runner-Up, Under-25 Category — World Open Silambam Championship 2025 (Doha, Qatar)
- Competitor, 23rd Puducherry–Tamil Nadu Inter-State Silambam Championship 2025 (Puducherry)
- Vice Chairperson, IEEE CTSoc | Coordinator, InnovaTN'26 (State-Level School Hackathon) | Secretary, MTS