# Tallapaneni Lakshmi Srivardhan

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## PROFESSIONAL SUMMARY

Computer Science undergraduate with strong foundations in software engineering, data structures, and backend development. Proficient in Java, Python, SQL, and RESTful APIs, with hands-on experience across the Software Development Life Cycle (SDLC) including development, testing, and deployment. Experienced in applying Machine Learning, Natural Language Processing (NLP), and Generative AI through real-world projects. Experience supporting software solutions across the end-to-end product lifecycle in enterprise application environments.

## Education

**Kalasalingam Academy of Research and Education** **(2022 – Present)**
*Bachelor of Technology (B.Tech) in Computer Science* *CGPA: 8.7*

**Bhashyam Junior College** **(2020 – 2022)**
*Intermediate (MPC)* *Percentage: 95.6%*

## PROFESSIONAL EXPERIENCE

**Freelance Software Engineer (Full-Stack)** **(Recent Project)**

Translated business requirements and functional specifications into 5+ modular, maintainable software components; designed and implemented RESTful backend APIs supporting multiple end-to-end application workflows; developed and integrated frontend interfaces to enable seamless user interactions; supported system integration testing (SIT) and deployment activities to ensure stable and reliable production releases; collaborated with 3-4 cross-functional stakeholders to refine requirements, resolve issues, and deliver user-focused software solutions within defined timelines.

## PROJECTS

**Contexta AI – Retrieval-Augmented Generation (RAG) System** **(Academic Project)**

- Developed an end-to-end AI solution for context-aware document question answering.
- Implemented document ingestion, embedding generation, vector-based retrieval, and LLM-powered response generation.
- Designed scalable backend services exposed through APIs to support maintainable system architecture.
- Technologies: Python, NLP, LLMs, Retrieval-Augmented Generation (RAG), Vector Databases

**Ameena AI – Multimodal AI Learning Assistant (IEEE Published)** **(June 2025 – December 2025)**

- Co-developed a browser-native, modular AI platform for personalized and multimodal learning, integrating Generative AI and Natural Language Processing (NLP).
- Designed scalable AI workflows with a focus on usability, maintainability, and real-world deployment considerations.
- Technologies: React, JavaScript, TypeScript, Generative AI, NLP.

## TECHNICAL SKILLS

- **Programming Languages:** Java,Python,SQL,JavaScript,TypeScript
- **Computer Science Fundamentals:** Data Structures and Algorithms,Object-Oriented Programming (OOP),Database Management Systems (RDBMS)
- **Backend & APIs:** RESTful APIs,Software Development Life Cycle (SDLC)
- **AI / Machine Learning:** Machine Learning,Natural Language Processing (NLP),Generative AI,Large Language Models (LLMs),Retrieval-Augmented Generation (RAG)
- **Web Technologies:** HTML,CSS,React
- **Tools & Platforms:** Git,Visual Studio Code,PyCharm,Jupyter Notebook,Google Colab

## Achievements & Leadership

- **Winner – HackEra Hackathon (HAVANA'25, GITAM University)** for developing an AI-driven solution under competitive time constraints.
- **1st Place – Pattern and Anomaly Detection Evaluation, Kalasalingam University** for applying machine learning techniques to real-world datasets.
- **IEEE Research Publication:** *A*meena AI – Browser-Native Multimodal AI for Personalized Learning.