

# HARRY FREEDOM VADLAMUDI

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## PROFESSIONAL SUMMARY

Software Engineer with hands-on experience in AI/ML implementations, full-stack development, and cloud deployment. Proven ability to deliver practical solutions that enhance efficiency across systems. Passionate about collaborative development of scalable applications and performance optimization. Eager to apply emerging technologies to solve tangible business challenges.

## TECHNICAL SKILLS

**Programming Languages:** Java, Python, JavaScript, TypeScript

**Web Development:** HTML, CSS, ReactJS, Redux, NodeJS, ExpressJS, JHipster, FastAPI, RESTful APIs, JSON, WebSocket

**Database & Caching:** MySQL, MongoDB, PostgreSQL, Redis, ORMs

**AI/ML:** Generative AI, TensorFlow, LangChain, LangGraph, CrewAI, Autogen, RAG, NLP, LLMs

**DevOps & Cloud:** Docker, Jenkins, Kubernetes, AWS, Azure

**Version Control:** Git, GitHub

## WORK EXPERIENCE

**AI/ML Intern at Genpact, Bengaluru**

*August 2024 - February 2025*

- Engineered a unified Authentication solution by developing a custom Okta Auth JS SDK, enabling seamless integration across React, Angular, and Vue frameworks, Reduced authentication implementation time by 60% and standardized security protocols, eliminating cross-framework code redundancy.
- Spearheaded an AI-driven FAQ portal using JHipster (Angular/Spring Boot), PostgreSQL; implemented RAG with LLMs using LangChain framework to auto-answer queries via semantic search on vector databases, reducing query resolution time by 75% and accelerating development by 40%
- Configured the PM2 process manager in cluster mode to horizontally scale a NodeJS applications for efficient load balancing, reducing server response times by 45% and achieving 99.8% uptime under peak load.

## EDUCATION

**Vellore Institute of Technology, Vellore**

2020 - 2025

Integrated M.Tech in Software Engineering

**CGPA: 8.0/10**

**Aditya Junior College**

2018 - 2020

Senior Secondary (BIEAP Board)

**CGPA: 9.7/10**

**Montessori's English Medium School**

2017 - 2018

Secondary School (SSC Board)

**CGPA: 9.3/10**

## PROJECTS

**Emotion-Based Music Recommendation System**

- Developed a real-time emotion detection model using CNN (OpenCV) & Random Forest, achieving 85% accuracy; integrated Spotify's API to auto-suggest mood-aligned playlists

**Intelligent AI-Driven Food-Ordering Chatbot**

- Engineered a conversational AI agent using Google Dialogflow (NLP) to automate user interactions.
- Integrated Python FastAPI and MySQL backend, designing a context-aware workflow that processed 200+ test interactions with 93% intent recognition accuracy.

## CERTIFICATIONS

- Microsoft Azure Fundamentals (AZ-900)
- Microsoft Security, Compliance, and Identity Fundamentals

*December 2024*

*July 2024*

## POSITIONS OF RESPONSIBILITY

**Core Member**, Sahiti Literary Association

*2020-2024*

- Spearheaded cultural events and literary workshops while leading a team of 25+ members, resulting in 40% increase in club participation and enhanced campus engagement

## CORE COMPETENCIES

Data Structures & Algorithms, OOPS, OS, System Design, Computer Networks, DBMS, SDLC, Machine Learning, Deep Learning, Natural Language Processing, Agile Methodologies