



# Vineel Tummala

Master of Science  
in Computer Science  
Miami University, Oxford

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## SUMMARY

As a computer science student, I am eager to work on projects that will allow me to develop my technical skills and gain industrial experience in the field. In addition, I have experience working with databases, web development frameworks, and agile project management practices. I am a quick learner and have strong attention to detail, and am confident that I can contribute to any team working on technical projects.

## EDUCATION

Degree	University	CGPA/Percentage	Year
M.S CS	Miami University, Ohio, USA	3.71	2022-2024
B.Tech CSE	GITAM University, Visakhapatnam, India	8.44/10.0	2018-2022

## EXPERIENCE

- Softeon** February 2024-Present  
*Large Language Models and Machine Learning Intern* Virginia, USA
  - Developed Retrieval-Augmented Generation (RAG) applications using LangChain, Chainlit, and ChromaDB.
  - Developed chat with PDF applications.
  - Created machine learning models for simple slotting problems in warehouse management systems.
  - Utilized data analytics to enhance warehouse management solutions.
- Aramark** May 2023-May 2024  
*Information Technology Intern* Ohio, USA
  - Spearheaded a major project to replace and upgrade outdated cash registers with new Micros Oracle registers across the Miami University campus, resulting in increased efficiency and customer satisfaction.
  - Successfully integrated Grubhub services into the campus dining system for Miami University and the University of Cincinnati, enhancing food delivery options and streamlining the ordering process for students and staff.
  - Collaborated with the Starship Technologies team to work on robotic delivery solutions, gaining hands-on experience with cutting-edge technology and contributing to the development of autonomous delivery services on campus.
- Miami University** August 2022 - May 2023  
*Teaching Assistant* Oxford, Ohio
  - Teaching Assistant for courses: Data Abstraction and Data Structures, Comparative Programming Languages
  - Responsible for helping students with their lab assignments for languages like Object Oriented Programming, Prolog, ASP, Python, C, C sharp
- Computer Society of India** 2020-2022  
*Head of Logistics and Social Media Marketing* Visakhapatnam, India
  - Responsible for managing logistics team
  - Responsible for fundraising to support various educational activities, events, and programs
  - Responsible for increasing page reach by 75%
  - Created promotional videos for events

## PROJECTS

- Virtual Reality Environment** January 2022 - March 2022  
*Virtual reality*
  - Developed and implemented several virtual reality environments including an escape room game using Unity and deployed them in Oculus Go VR headset also created a meditation environment for people who wanted a place to meditate for better mental health.
- Process Management System** Mar 2021 - Apr 2021  
*Java & SQL*
  - Developed and implemented an application to keep track of essential business functions including accounting, production, sales, and purchasing.
- Data Management System** Mar 2020 - Apr 2020  
*Database Management Systems*
  - Developed and implemented a data storage and retrieval system that was used to keep track of all existing employee details; enabling the feature to add a new employee to the database

## TECHNICAL SKILLS

- Programming Languages:** Python, Java, SQL, JSON, RDBMS C#, Prolog, Scheme, Answer Set Programming, C/C++.
- Tools and Frameworks:** Langchain, Chainlit, ChromaDB, Jupyter, Visual Studio, Snowflake, Collibra, Postman, Git/GitHub, & Unity.
- Operating Systems:** Windows, Linux & Android

## PUBLICATIONS

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- Tummala, Vineel SK. "Penalization Framework For Autonomous Agents Using Answer Set Programming." arXiv preprint arXiv:2309.04487 (2023) Presented at Doctorial Consortium, International Conference of Logic Programming (ICLP 2023) at Imperial College, London, United Kingdom(UK).
- Automatic Detection of Social Distance Violation from Real-Time Web Camera Using Open CV with Deep Learning. 2021. Gadu S, Kuchimanchi SVS, Nirupam Y, Akhil P, Poorna C, Sala L, *Tummala V*, Vanaparthi BS, Mantri R, Para MC., Design Engineering. Vol 2021(8), 11297-11307.