VINEEL TUMMALA   **Portfolio:** [Vineel Tummala](#)
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SKILLS & ATTRIBUTES:

- Experience in managing and maintaining virtualized environments including experience with tools like VMware, Docker, and Kubernetes.
- Strong understanding of system performance monitoring, troubleshooting, and issue resolution in complex infrastructure environments.
- Proficient in relational database systems, capable of writing complex queries, managing database performance, and ensuring data integrity using ORM models.
- Experience in cloud platforms like AWS, Azure, Google Cloud, and understanding of CI/CD pipelines for efficient software deployment.
- Proficient with Git for managing code repositories and collaborating with teams on version control.

EDUCATION:

- Master of Science in Computer Science, 2024
  Miami University, Oxford, Ohio
  Thesis: Penalization framework for Autonomous Agents using Answer Set Programming.

CERTIFICATIONS:

- AWS Cloud Practitioner, Amazon Web Services (AWS), 2024.
- Agile Development & Scrum, International Business Machines Corporation (IBM), 2024.
- Continuous Integration and Continuous Delivery (CI/CD), IBM, 2024.

EXPERIENCE:

Information Technology Lead – Compass Group USA, Inc.   **August 2024 – Present**

- Maintained on-premises CBORD and CSGOLD servers, ensuring high availability, performance, and security for critical dining and access management systems.
- Responsible for campus wide order processing and item routing, across multiple cafeteria at Miami University. Utilized Java and Python.
- Took initiative and responsibility as point of contact for Starship Technologies team for successful integration and launch of robotic food delivery system at Miami University.
- Personally identified a bug in the ordering & payment processing system, that was costing the company to tune of $80k that was eventually resolved with coordination & input from multiple teams.
- Delivered process improvements by eliminating item ordering inefficiencies that are identified from data analysis/trends using python and SQL.

- Effectively managed multiple projects across teams using project management tools such as smart sheets, teams and slack.

Internship at Softeon Inc.   **February 2024 – August 2024**

- Developed multiple Retrieval-Augmented Generation (RAG) applications using Large Language Models (Llama2, mistral, GPT4).
- Successfully utilized Lang chain for effective integration of data(python) and functioning of RAG.
- Integrated RAG into web applications using Chainlit to create seamless and user-friendly interfaces.
- Developed, tested and implemented RAG using Docker and Kubernetes. Successfully ensured scalability, maintainability, and resilience of application across cloud platforms.
- Utilized PySpark for processing and analyzing large datasets, aligning with requirements for performance monitoring in virtualized environments.

Internship at Aramark LLC.   **May 2023 – May 2024**

- Collaborated with CBORD Group (Software Company) to deploy and test digital student ID cards at Miami University, enabling streamlined digital meal swipe processing at dining halls. Utilized Java and Python.
- Worked with cross-functional teams to implement and test the digital ID system, enhancing accuracy and reducing transaction errors in meal swipes.

Teaching Assistant – Miami University   **August 2022 – May 2023**

- Teaching Assistant for courses: Data Abstraction and Data Structures, Comparative Programming Languages
- Responsible for helping students with languages like Object Oriented Programming, Prolog, ASP, Python, C, C sharp

PUBLICATONS & PRESENTATIONS:

- Tummala, Vineel, and Daniela Inclezan. "Policies, Penalties, and Autonomous Agents.", 2024, Oral Presentation, Logic Programming and Nonmonotonic Reasoning, Dallas, TX.
- Inclezan, Daniela, Harders, Charles, and Tummala, Vineel SK. "A Framework for Defining Behavior Modes in Policy-Aware Autonomous Agents." 2024. Oral Presentation, ASPOCP, International Conference on Logic Programming, Dallas, TX.
- Tummala, Vineel SK. "Penalization Framework For Autonomous Agents Using Answer Set Programming." arXiv preprint arXiv:2309.04487, 2023 Oral Presentation, International Conference of Logic Programming (ICLP 2023), London, UK.
- Gadu S, Kuchimanchi SVS, Nirupam Y, Tummala V, Vanaparthi BS, Mantri R, Para MC. Automatic Detection of Social Distance Violation, from Real-Time Web Camera Using Open CV with Deep Learning, 2021. Design Engineering. Vol 2021(8), 11297-11307.