

Venkata Kailash Tanniru

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Data Science graduate student and Full-Stack Developer with 1+ year industry experience. Passionate about building scalable AI-driven systems that solve real-world problems.

WORK EXPERIENCE

University of Wisconsin

September. 2024 – Present

Student manager

Cambridge Commons, Milwaukee

- Reduced food waste by **25%** by implementing a demand-based prep system, saving **\$300**/Month in costs
- Trained and supervised **10+** new hires; developed a standardized onboarding manual that reduced ramp-up time.
- Optimized workflow by reorganizing inventory storage, reducing staff retrieval time.

Capgemini

July 2023 – May 2024

Software Analyst

Hyderabad, India

- Collaborated with product managers, QA engineers, and DevOps teams to deliver critical features in agile sprints, resulting in a **98%** client satisfaction rate.
- Refactored and optimized backend modules in Java and Spring Boot, reducing API response times by 20% and improving overall system scalability.
- Designed and implemented automation scripts in Python to streamline deployment and monitoring workflows, decreasing manual effort by **40%** and improving operational efficiency.

TECHNICAL SKILLS

Programming Languages: Python, Java, C/C++, JavaScript, TypeScript, SQL (PostgreSQL, MySQL).

Machine Learning/Data Science: Deep Learning, Machine Learning, TensorFlow, PyTorch, DataBricks, Big Data.

Web Development: Django, React.js, Next.js, REST API, Tailwind CSS, Firebase.

Cloud & DevOps: AWS (EC2, S3), Docker, Git, GitHub, TravisCI, Heroku, Linux.

PROJECTS

GoHabit | [\[Website\]](#) | [\[GitHub\]](#)

Dec 2024 – Mar 2025

- Engineered a full-stack habit tracking platform leveraging **Django REST Framework** for scalable backend APIs and **Next.js (React)** for a dynamic, responsive frontend.
- Integrated **JWT-based authentication and role-based access control**, ensuring secure user session management and API access.
- Implemented asynchronous workflows using **Celery with Redis**, enabling real-time task scheduling and background habit reminder processing.
- Designed and deployed a modular email notification system for daily/weekly habit reminders, enhancing user engagement by 30%.
- Containerized the application with Docker and deployed to **Heroku**, following CI/CD practices for automated testing and deployment.

EDUCATION

University of Wisconsin

September. 2024 – Present

Master of Science in Data Science — CGPA: 3.4/4.00

Milwaukee, USA

- Relevant Coursework:** Machine Learning, Big Data Analytics, Statistical Methods, Deep Learning, Data Visualization, Cloud Computing, Database Systems

Amity University

July 2019 – July 2023

Bachelor of Technology in Artificial Intelligence — GPA: 8.9/10.0

Lucknow, India

- Relevant Coursework:** Algorithms & Data Structures, Neural Networks, Natural Language Processing, Computer Vision, Probability & Statistics, Software Engineering

ACHIEVEMENTS

- Solved **200+ DSA** [\[Leetcode\]](#) problems with a strong focus on patterns, optimization, and system-level thinking.
- Built a **self-driving robot** using ultrasonic sensors and microcontroller integration; awarded at a national-level fair hosted by IIT-Bombay for innovation in autonomous systems.