

KAMALESH R

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EDUCATION

B.E., Computer Science Engineering JCT College of Engineering and Technology Affiliated with Anna University, Chennai Relevant coursework: Software Engineering, Operating Systems, Algorithms, Artificial Intelligence, System Architecture, Database Management Systems, Web Development, Machine Learning, Data Structures	Graduating Expected Oct 2026 8 GPA
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TECHNICAL SKILLS

Programming: Python, JavaScript

Technologies: Git, Django, Pandas, NumPy

Certifications: Oracle Cloud Infrastructure 2023 AI Certified Foundations Associate

PROJECTS

Notes – Django-based Note Taking Application

2026 – Present

Developed a mobile-optimized Notes Taking App

GitHub

- Built a full-stack Django application enabling users to create, edit, archive, restore, and soft-delete notes with per-user data isolation
- Implemented authentication workflows (signup, login, logout) using Django's built-in auth system and custom user profile management
- Designed efficient note organization with archive and trash systems, timestamp tracking, and real-time search by title and content
- **Technologies:** Django, Python, HTML, CSS, JavaScript, SQLite, PostgreSQL, Gunicorn, Render

Warehouse Multi-Agent System (Multi-Agent Reinforcement Learning)

2026 – Present

Built a scalable multi-agent reinforcement learning system for warehouse automation using Deep Q-Networks GitHub

- Developed a grid-based warehouse environment where multiple robots learn navigation, shelf pickup, delivery, and collision avoidance
- Implemented independent Deep Q-Network (DQN) policies per agent with experience replay and target networks
- Designed symmetry-aware safety verification using quotient model construction to reduce state space
- Implemented counterexample-guided policy refinement by prioritizing failure cases in replay buffers
- Built prioritized experience replay to focus training on collisions and unsafe behaviors
- **Technologies:** Python, PyTorch, NumPy, Reinforcement Learning, Multi-Agent Systems, DQN, YAML

OTHER EXPERIENCE

JCT College of Engineering, Coimbatore, India: Peer Tutor

March 2025 – Present

- Conducted hands-on Python training for 10–15 undergraduate students, covering core programming, scripting, and problem-solving
- Delivered lessons on Data Structures and Algorithms, including time complexity, recursion, sorting, and dynamic programming with real-world examples

ACTIVITIES

JCT Coding Club, Coimbatore, India: Active Member

2023 – Present

- Participated in weekly coding challenges and solving problems in Python

HONOURS

Kerala Sasthrosavam IT Fair, Palakkad, Kerala, India: First Place in Animation

2019 – 2020

- Secured First Place in Animation at the Palakkad District Kerala Sasthrosavam IT Fair 2019–2020, awarded by the Government of Kerala