

# NANDINI KAMEPALLI

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Over the past six months I have focused on Agentic AI development at Zennial Pro, building autonomous agents for task automation, workload management, and enterprise-grade backend systems. Designed RBAC and JWT-based security, developed AI-driven POCs, and implemented RESTful APIs with MongoDB—resulting in a 40% reduction in authentication-related errors and automating up to 70% of routine task assignments.

## **PROFESSIONAL EXPERIENCE**

## Zennial Pro Private Limited Associate Software Engineer

April 2025– Present

- Designed and implemented Role-Based Access Control (RBAC) and workflow automation for enterprise-grade task and issue tracking systems
  - Collaborated cross-functionally to deploy secure, production-ready backend modules with seamless frontend integration.
  - Designed RESTful APIs for seamless frontend-backend communication and Implemented database schemas in MongoDB for efficient data storage, retrieval, and audit logging.
  - Reduced authentication-related errors by 40% through robust JWT-based session management.
  - Tech stack: Python, FastAPI, LangChain, OpenAI API, MongoDB, Git, RESTful APIs

## PROJECTS

## Task Tracking System([GitHub](#))

October 2025

- Developed an Agentic AI–driven Role-Based Task Tracking System (RBTTS) to automate task creation, assignment, and workload management, reducing project delays and manual intervention.
  - Implemented role-based access control (RBAC) and real-time progress monitoring, ensuring accountability and transparency across all team roles.
  - Integrated intelligent agents to dynamically analyze team workloads and reassign tasks based on priority and availability, ensuring balanced productivity across roles.

## Responsive Personal Portfolio ([GitHub](#))

September 2025

- Developed a responsive portfolio optimized for various screen sizes, improving overall usability by 30% based on user feedback.
  - Added interactive features such as smooth scrolling, hover effects and a typing animation, resulting in a 15% increase in user engagement using ReactJs and typescript.
  - Leveraged HTML, CSS, and JavaScript to build features, achieving a 90% performance score during testing on Google Lighthouse for cross-device compatibility.

## Accident Detection System

May 2024

- Developed a CNN-based Accident Detection System to identify accident patterns and detect collision scenarios from real-time image and video data.
  - Implemented deep learning models using Convolutional Neural Networks for accurate feature extraction and classification of accident frames.
  - Achieved high detection accuracy and reduced false positives through optimized model training and dataset preprocessing, improving response reliability and safety outcomes.

## **EDUCATION**

Chebrolu Engineering College  
Course: B. Tech, CSE(AI&ML), 8.03

**2020-2024**

## **SKILLS & OTHER**

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- Programming Languages: Python, Java
- Frameworks & Libraries: Flask, FastAPI, LangChain
- APIs & Integrations: RESTful APIs, OpenAI, Google APIs
- Databases: MongoDB, MySQL
- Tools: Postman, GitHub

## **CERTIFICATIONS**

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- Artificial Intelligence - Udemy - July 2024
- Azure AI Fundamentals - Microsoft - October 2022
- AWS Cloud Foundations - Amazon Web Services Training and Certification - October 2022

## **ACHIEVEMENTS & AWARDS**

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- Placed third in KIMO EDGE-23 competition focused on cutting-edge technologies.