Thanki Y

Full Stack Python Developer, 8+ years experience
Rajkot, India
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Experienced Product Manager and AI Developer with expertise in building AI-powered software products using Python, Django, and ReactJS. Skilled in machine learning and deep learning technologies, including NLP, computer vision, LLMs, and generative AI, with applications in chatbots, document parsing, predictive analytics, pose estimation, sports analytics, and ANPR. Proficient in deploying AI models on edge devices (Jetson Nano/Xavier) and integrating with high-definition camera streams. Experienced in backend development, OCR, IoT, and GUI design (PyQt5, Tkinter), with strong knowledge of frameworks like TensorFlow, PyTorch, ONNX, TensorRT, and OpenVINO. Adept at optimizing systems, designing POCs, and collaborating globally to deliver innovative AI solutions across diverse domains.

INDUSTRIES: Construction, Industrial

TECHNICAL SKILLS

• Python	8 years
• Machine Learning	7 years
• Computer vision	5 years
• Django	5 years
• Docker	5 years
• Generative AI	4 years

PROJECT DETAILS

• Drone-Based Roof Inspection System

Project Description: I built a drone-based system to create, assign and assess the Roof inspection job to pilots with location and weather information. Pilots will visit the place and capture pictures of roof and upload it into server where AI will detect the Hail Hits, Soft Metal damages, etc Admin can create reports automatically and provide it to the insurance company to help them decide whether to pass the claim or not.

Responsibilities: Develop and maintain robust backend services using Python, Django/Flask. Build responsive and intuitive frontends using React, Vue, or similar frameworks. Ensure seamless integration between frontend, backend, and AI components.

Technologies: Python, Django Rest Framework, OpenCV, Postgres, Weather API, Docker, AWS EC2, AWS S3, AWS Rekognition, GitHub

Industry: Construction

• VR On-Ground Support Application

Project Description: Developed web and virtual reality (VR) applications to enhance on-ground support operations. Implemented real-time streaming from VR cameras to the web, allowing users to view live feeds seamlessly. Enabled real-time uploading of images and PDFs, which are rendered within the VR environment for immediate access. Facilitated web users to make 2D annotations that are instantly displayed in 3D within the VR space, improving communication and collaboration. Incorporated functionality to record user sessions along with captions, allowing for future review and analysis. Integrated real-time rendering of 3D objects in the VR environment, controlled directly from the web interface.

Responsibilities: Lead the design, development, and deployment of end-to-end AI-powered applications. Make architectural decisions for scalable backend and frontend systems. Guide the integration of AI/ML models into production environments

Technologies: React.js, Node.js, TypeScript, C#, Unity, Socket, WebRTC.

Industry: Industrial

EDUCATION

• Bachelors degree in EC from GTU 2014 - 2018

LANGUAGES

• English - advanced

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