Yash Prabhakar Khairnar

+1 (408) 569-4072 | San Jose, CA 95110 | yashkvk7@gmail.com | [LinkedIn](#) | [GitHub](#) | [Portfolio](#)

EDUCATION

Master of Science in Computer Science   Aug 2025 – May 2027
San Jose State University   *San Jose, CA*
Coursework : Machine Learning, Cloud Computing, Graduate Writing

Bachelor of Engineering in Computer Engineering   June 2020 – June 2024
Savitribai Phule Pune University — GPA: 9.0/10   *Pune, India*

TECHNICAL SKILLS

Programming Languages: Python, C++, JavaScript, TypeScript, HTML/CSS
Frameworks: React, Next.js, Node.js, Django, Flask, Express.js, FastAPI, Tailwindcss
AI/ML: TensorFlow, PyTorch, Keras, ROS, Scikit-learn, LangChain, LangGraph, Streamlit, MCP, OpenCV, YOLO, NVIDIA Triton, ONNX, spaCy, NLTK, NumPy, Pandas, Matplotlib
Databases: MySQL, SQL Alchemy, MongoDB, Mongoose, PostgreSQL, Prisma, Redis, DynamoDB
Cloud & DevOps: AWS, Cloudflare, Git, Docker, Kubernetes

EXPERIENCE

Software Engineer   July 2024 – June 2025
Accurate Industrial Controls Pvt. Ltd.
- Led a 6-member cross-functional team to develop a remote generator monitoring system with anomaly detection, Remaining Useful Life prediction, and predictive maintenance models, achieving 93% accuracy on 500+ hours of operational data
- Built an ANPR application using YOLOv11 and PaddleOCR with preprocessing pipelines, improving plate detection and text extraction to 97% accuracy
- Eliminated 100% of manual intervention in LPG cylinder inspection by designing a ROS-based pre-filling pipeline with NVIDIA Triton Server, YOLO for defect detection, and EasyOCR for text extraction, producing 93% model accuracy

Artificial Intelligence Intern   Aug. 2023 – Nov. 2023
Accurate Industrial Controls Pvt. Ltd.
- Automated an anomaly detection pipeline for copper coils by leveraging PatchCore and YOLO for defect identification and object tracking, with image compression to optimize performance
- Reduced inference latency of a real-time video streaming app to 50 ms through pipeline optimization, GPU acceleration, multi-threading, and frame skipping
- Researched and evaluated pathfinding and collision avoidance algorithms like A* and Potential Fields for an autonomous boat navigation system

Deep Learning Intern   Nov. 2022 – Feb. 2023
ResoluteAI Software Pvt. Ltd.
- Created a facial recognition attendance system with 90% accuracy and less than 2% FPR by combining MTCNN-based detection/alignment and an ANN for feature matching
- Engineered a PDF resume parser using PyPDF2 and Regex to extract structured data into JSON, automating 70% of manual data entry and improving efficiency
- Developed and deployed YOLO models for industrial automation, achieving 92% detection accuracy and streamlining inventory tracking through end-to-end ML pipelines

PROJECTS

ResuMatch - refine your resume | *Next.js, Flask, Reinforcement learning, LangGraph*
- Developed an AI-powered resume optimization system featuring two agents an RL Agent for iterative refinement and a Judge LLM for evaluative feedback
- Integrated Tavily API for real-time job retrieval, enabling context-aware and role-specific resume enhancement

Slique - Job Search Platform | *Next.js, Tailwindcss, AWS, PostgreSQL, Prisma, OAuth, Google Gemini API*
- Built a full-stack platform connecting fashion models and brands with scalable backend and responsive UI
- Implemented real-time chat, notifications, and workflows for hiring, job posting, contracts, and scheduling
- Integrated Gemini API to enable GenAI-based job post and resume generation, streamlining casting