

# Mohammed Qambar Syed

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Portfolio: [qambar.netlify.app](https://qambar.netlify.app) GitHub: [github.com/Qambar-dev-0207](https://github.com/Qambar-dev-0207)

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## Summary

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Aspiring Machine Learning and XR Developer with hands-on experience in building intelligent systems, automation workflows, and full-stack AI applications. Skilled in Python, computer vision, deep learning, backend engineering, and browser automation. Developed production-level AI projects including job automation platforms, plant-disease detection systems, safety monitoring solutions, and career-copilot applications. Focused on real-world problem-solving and robust technical implementation.

## Education

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**Bachelor of Technology in Computer Science Engineering** 2024 – 2027 (Expected)  
Integral University, Lucknow  
CGPA: 7.5

**Diploma in Computer Science Engineering** 2021 – 2024  
Integral University, Lucknow  
CGPA: 8.5

## Work Experience

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**AI Engineering Intern — Norma AI** Feb 2026 – Present

- Developing AI-driven voice and automation solutions using modern LLM and speech technologies.
- Building conversational AI workflows integrating APIs, speech-to-text, and text-to-speech systems.
- Working on scalable backend logic for AI agents, automation pipelines, and real-time interaction systems.
- Collaborating with product and engineering teams to design intelligent user-facing AI features.

**AI Engineer Intern — Robotics Lab, Integral University** Feb 2025 – Aug 2025

- Designed and developed the **LeafLens** CNN-based plant disease detection model from scratch.
- Improved model accuracy from **70% to 83%** through dataset restructuring, augmentation, transfer learning, and hyperparameter tuning.
- Built automated pipelines for symptom-based dataset creation, preprocessing, augmentation, and multi-class model training.
- Implemented segmentation and feature extraction workflows enabling reliable classification across **15+ disease categories**.
- Collaborated with faculty researchers to validate real-time performance and optimize the model for deployment.

## Projects

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**PathOS — AI Resume & Career Intelligence Platform**

*FastAPI, React, AI APIs, Resume Parsing, Career Analytics*

[Live Demo](#) [GitHub](#)

- Built an AI-powered career guidance platform that analyzes resumes and provides personalized career insights.
- Implemented resume parsing and skill extraction pipelines to identify strengths, weaknesses, and improvement areas.
- Developed features for career recommendations, skill-gap analysis, and role-based guidance.
- Designed a responsive web interface enabling users to upload resumes and receive AI-generated career suggestions.

**Praxis AI — AI Learning & Productivity Assistant**

*Python, AI APIs, Automation, Full-Stack Web Development*

[Live Demo](#) [GitHub](#)

- Developed an AI-powered productivity and learning assistant designed to help users manage tasks, learning resources, and insights.
- Integrated AI models for intelligent responses, guidance, and contextual recommendations.
- Implemented structured workflows enabling users to interact with the assistant through an intuitive interface.
- Focused on practical AI integration to support learning, productivity, and information retrieval.

## Agentic AI Career Co-Pilot — Full-Stack AI Job Automation Platform

*FastAPI, MongoDB, LangChain, Gemini API, Playwright, React, Docker*

- Designed a full-stack AI career assistant enabling resume optimization, skill-gap analysis, job search automation, and interview coaching.
- Engineered backend services for LLM-powered resume parsing, JD comparison, automated skill extraction, and version management.
- Built authentication and user management using JWT, with dashboards and analytics for personalized insights.
- Implemented Playwright automation for job scraping, JD extraction, and guided job-application workflows.
- Developed a responsive React frontend with reusable UI components and visual analytics (Recharts).
- Containerized backend and database layers using Docker Compose for scalable deployment.

## LeafLens — AI Plant Disease Detection System

*TensorFlow, OpenCV, CNN, Transfer Learning*

- Created a production-ready CNN model for plant leaf disease classification, improving accuracy from **70% to 83%**.
- Applied transfer learning, Grad-CAM explainability, optimized augmentation, and preprocessing to improve robustness.
- Engineered efficient training workflows enabling stable classification across multiple disease categories.

## Danger Object Detection — Real-Time Safety Monitoring System

*Python, OpenCV*

- Developed a real-time safety detection system using classical computer vision techniques without pose-detection APIs.
- Implemented custom boundary detection, thresholding, contour tracking, and contextual danger alerts.
- Optimized frame processing for stable performance under variable lighting conditions.

## Resume & Job Application Automation Assistant

*Python, Playwright, MongoDB, Gemini API*

- Built a CLI-based assistant automating resume tailoring, JD extraction, and skill-gap identification.
- Integrated persistent memory (MongoDB) for storing user profiles, skills, experience, and job tracking data.
- Automated keyword mapping, JD comparison, and AI-driven resume rewriting workflows.

## Railway QR Authentication System — SIH Hackathon Project

*Security, Automation*

- Created a secure QR-based passenger authentication system to reduce impersonation and compartment-level entry fraud.
- Developed encrypted QR workflows and backend validation mechanisms optimized for low-connectivity environments.

## Skills

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**Programming Languages:** Python, JavaScript, Java

**AI Machine Learning:** TensorFlow, PyTorch, Scikit-learn, OpenCV, NLP, Deep Learning, Computer Vision, NumPy, Pandas

**LLM AI Systems:** LangChain, Prompt Engineering, AI Agents, RAG Pipelines, LLM API Integration (Gemini, OpenAI, Claude)

**Backend APIs:** FastAPI, Node.js, REST APIs, JWT Authentication

**Automation Dev Tools:** Playwright, Docker, Git, GitHub, Linux, Jupyter Notebook

**Frontend:** React.js, HTML5, CSS3

**Databases:** MongoDB, MySQL

## Achievements

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- Selected for **Smart India Hackathon (SIH)** for developing a railway security automation solution.
- Improved plant disease classification accuracy by **13%**, earning recognition at the Robotics Lab.
- Successfully deployed multiple AI systems including automation tools, safety detection systems, and full-stack AI platforms.
- Completed a 6-month AI internship focused on applied machine learning and real-world deployment.

## Certifications

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- IBM Machine Learning Certification — IBM SkillsBuild
- Machine Learning A-Z — Udemy