

# Khushi Desai

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## SUMMARY

Software Engineer with 1 year of experience building scalable backend systems, real-time applications and distributed platforms. Experienced in microservices, event-driven architectures, and secure system design across AI, IoT, and cloud domains.

## EDUCATION

- Pandit Deendayal Energy University** 2021 – 2025  
*Bachelor of Technology, Computer Science and Engineering* CGPA: 9.43/10

## EXPERIENCE

- Glide Technology Pvt. Ltd.** Jul 2025 – Present  
*Associate Software Engineer* Ahmedabad, Gujarat
  - **ABOVE AI : Real-Time Audio Intelligence Platform**
    - \* Developed a distributed audio intelligence platform for live transcription, speaker diarization, and AI-powered conversation insights using ASP.NET Core, Python, FastAPI, and SurrealDB.
    - \* Built Redis-based asynchronous processing pipelines and integrated LiveKit/WebRTC for low-latency audio streaming and scalable event-driven workflows.
    - \* Designed backend services for session orchestration, transcript persistence, memory generation, and communication between .NET and AI/ML services.
  - **Project Pink : Real-Time Indoor Tracking & Vision Analytics Platform**
    - \* Developed backend and frontend components for a real-time IoT tracking platform using Node.js, React.js, MQTT, Socket.IO, and WebRTC.
    - \* Built device lifecycle management, event processing, and real-time synchronization services for live location tracking and analytics delivery.
    - \* Engineered interactive 2D/3D visualization dashboards using Konva, Three.js, and Chart.js for asset tracking and vision analytics.
- Glide Technology Pvt. Ltd.** Jan 2025 – Jul 2025  
*Digital Cloud Intern* Ahmedabad, Gujarat
  - **Healthcare Private Cloud Platform**
    - \* Engineered a secure healthcare platform enabling real-time IoT monitoring and WebRTC-based patient communication using Node.js, Express.js, and PostgreSQL.
    - \* Implemented MQTT-based telemetry ingestion and integrated Keycloak, OAuth2, RBAC, JWT, Kong Gateway, and mTLS for IAM and service security.
    - \* Automated deployment and monitoring using Docker, Terraform, Jenkins, Prometheus, and Grafana.
- DataLigence Infotech Pvt. Ltd.** May 2024 – Jul 2024  
*Software Development Intern* Ahmedabad, Gujarat
  - **FalconAlgo : Algorithmic Trading Platform**
    - \* Developed backend services and dashboard features for an algorithmic trading platform using Node.js, Express.js, MongoDB, and React.js.
    - \* Integrated ICICI Breeze APIs for real-time market data, portfolio management, and automated trading workflows.
    - \* Optimized data processing and analytics pipelines to improve platform performance and responsiveness.

## PROJECTS

- Digital Assistance for Legal Awareness** [Project Link](#)  
*Flask, TensorFlow, PyTorch, NLP*
  - Developed a multilingual legal assistance platform that simplifies legal rights and regulations through AI-powered guidance and categorization.
  - Built backend services using Flask, Flask-Babel, Flask-Session, and SQLite with support for localization and user session management.
  - Leveraged TensorFlow, PyTorch, and NLP techniques for text analysis, classification, and text-to-speech functionality.
- Automatic Motorcyclist Helmet Rule Violation Detection System** [Project Link](#)  
*YOLOv5, EasyOCR, OpenCV*
  - Developed a real-time traffic surveillance system to detect helmet violations and identify vehicle registration numbers.
  - Utilized YOLOv5 for object detection and EasyOCR for automatic number plate recognition from video streams.
  - Applied transfer learning, OpenCV, and data augmentation techniques to improve detection accuracy across diverse traffic conditions.

## TECHNICAL SKILLS

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**Programming:** JavaScript, TypeScript, C#, Python, Java, C++

**Frameworks & Technologies:** Node.js, Express.js, ASP.NET Core, React.js, FastAPI, TensorFlow, PyTorch, OpenCV, YOLO, MQTT, WebRTC, Socket.IO, Redis

**Platforms & Tools:** AWS, Azure, Docker, Kubernetes, Terraform, Jenkins, Prometheus, Grafana, PostgreSQL, MongoDB, MySQL, SurrealDB, Keycloak, Kong Gateway

## ACHIEVEMENTS

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– **New India Vibrant Hackathon, 2023 Finalist**


*Nov 2023*

Designed Medicinal Plants Awareness App for plant identification and medicinal info via image uploads.

## CERTIFICATION

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– **Udemy**, The Complete 2023 Web Development Bootcamp

 Issued Jun, 2023

– **Coursera**, Supervised Machine Learning: Regression and Classification

 Issued Jul, 2023

– **NVIDIA Deep Learning Institute**, Fundamentals of Deep Learning

 Issued Sept, 2023