

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 cloud-based systems across AI, IoT, and cloud domains. AWS Certified Developer – Associate.

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

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

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

Nov 2023

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

CERTIFICATION

– **Amazon Web Services (AWS)**, AWS Certified Developer – Associate

 Issued Sept, 2026

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

 Issued Sept, 2023

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

 Issued Jul, 2023

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

 Issued Jun, 2023