

Revanth Guthula

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Summary

Software Development Engineer skilled in Java, Python, and C++, with strong knowledge of data structures, algorithms, and object-oriented design. Experienced in building scalable, distributed, and fault-tolerant systems, cloud computing (AWS, GCP, Azure), and agile software development. Passionate about solving complex problems and delivering high-quality, cost-efficient solutions at scale.

Education

KL University Hyderabad

Aug 2022 - May 2026 (Expected)

Bachelor's of Technology in Artificial Intelligence and Data Science

CGPA: 7.76/10

Coursework: Data Structures & Algorithms, Object-Oriented Programming, Operating Systems, Computer Networks, Relational Databases, Distributed Systems, Algorithm Design, Machine Learning, Deep Learning

Skills

Languages: Java, Python, C++, SQL, HTML, CSS, JavaScript

Technologies & Tools: React, Next.js, Django, Docker, Git/GitHub

Cloud Platforms: AWS (EC2, S3, Lambda, Elastic Beanstalk), GCP, Azure, Vercel, Render

Machine Learning: TensorFlow, Scikit-learn, PyTorch, Hugging Face, LangChain

Core Competencies: Scalability, Fault-Tolerance, Optimization, Complexity Analysis, Problem Solving

Work Experience

Ghar Ka Khana, Mumbai

Jul 2025 - Present

Software Developer Intern

- Designed and implemented a distributed, fault-tolerant web application for restaurant ordering using Next.js and Supabase - ensuring high availability and scalability for thousands of concurrent users.
- Optimized API performance and database queries, reducing response time by 30% under heavy load.
- Built authentication, secure API layers using Supabase & Twilio, ensuring data integrity and seamless user experience.
- Worked on ambiguous problem statements and delivered scalable solutions.
- Tech stack: Next.js, React, TypeScript, Supabase, Twilio, AWS, Docker

Project Work

DataPulse — Scalable Data Health Monitoring System

[GitHub Link](#)

- Built to ensure data quality in enterprise-scale pipeline analyzing 10M+ records for missing values, outliers, and drift.
- Used asynchronous task execution and containerization to reduce data validation time by 40%.
- Tech stack: FastAPI, Python, Scikit-learn, React, Docker, AWS

Image Captioning Django Web App

[GitHub Link](#)

- Built a Django-based application integrating BLIP Transformer models for real-time caption generation.
- Improved inference performance using batch processing and caching strategies.
- Tech stack: Python, Django, PyTorch, Transformers

Face Emotion Detection

[GitHub Link](#)

- Designed a computer vision solution using OpenCV and FER for emotion detection from live camera feeds.

Research and Certifications

- Published "An Enhanced SVM Model Optimized with Minimum Bayes Error Rate for Mental Disorder Detection" — Springer ICT4SD 2025
- Cloud Digital leader - Google Cloud Certified
- Azure AI Associate Engineer – Microsoft Certified

Competitions

- NXP AIM India 2024 (Regionals)** – Built an obstacle-avoiding robot with ROS2 lane detection, applying real-time decision-making and distributed robotics concepts.