

Rohit Singhee

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Education

Birla Institute of Technology and Science, Pilani <i>M.E. in Software Systems; CGPA: 9.47 (Rank Holder)</i>	Pilani, India Aug 2024 – Aug 2026
University of Engineering and Management, Kolkata <i>B.Tech in Computer Science & Engineering; CGPA: 9.71 (Rank Holder)</i>	Kolkata, India Aug 2019 – Jun 2023

Experience

Walmart Global Tech- Ecommerce team <i>AI Intern</i> – Working on LLM-based systems using LangChain and LangGraph for building scalable AI workflows.	Jan 2026 – Present Bangalore, India
LightBeam <i>Software Engineer & Consultant</i> – Designed an ML pipeline using LLaMA and ChatGPT-4 API for synthetic document generation, improving document detection and NER accuracy. – Developed an analytics dashboard integrating metadata from multiple sources, reducing storage costs by 30% and enhancing deployment time accuracy. – Built a GPT-based system for automated question answering and form filing from lengthy PDF documents. – Implemented NER and document classification pipelines with OCR, template recognition, and ensemble learning techniques. – Created a cookie consent feature using Selenium, enabling compliance and rapid onboarding of two clients.	Jun 2023 – Jul 2024 Remote
LightBeam <i>Machine Learning Intern</i> – Developed an automated integration testing pipeline, generating detailed model metrics and delta reports. – Created a custom NER suite, increasing entity recognition accuracy by 10%.	Jun 2022 – Jun 2023 Remote

Projects

Ideaverse: LLM-Based Research Platform <i>Docker, Microservices, MongoDB, OpenAI API</i> – Led the architecture and development of Ideaverse, an AI-powered platform for research idea generation. – Implemented modular microservices with Docker, integrated Redis-Celery for async task handling, and set up dual-database persistence (PostgreSQL and MongoDB). – Designed and deployed Reflection and Diamond Mining workflows; introduced novelty, feasibility, and impact metrics to evaluate idea quality.	Jan 2025 – May 2025
Raft-Based Distributed Learning Management System <i>gRPC, Flask, Docker, Ollama</i> – Developed a microservices-based LMS with gRPC, Flask, Docker. – Implemented core features like user management and grading via a gRPC server. – Added an LLM chatbot for contextual assignment queries using Ollama and Gemma models.	Jul 2024 – Nov 2024
Scalable Face Attendance System <i>FAISS, Firebase, Google MediaPipe, React, Flask</i> – Built a facial recognition system for attendance tracking, achieving 90% accuracy on 100K images. – Leveraged FAISS for face matching and Firebase for real-time data sync. – Optimized performance with caching and GPU-compatible processing.	Jul 2024 – Present

Skills

Languages: Python, C++	Databases: MongoDB, SQL, SQLite
Technologies: Docker, Git, Linux, JIRA	ML/AI: LLM, RAG, NER, OpenCV, DL
Frameworks: Flask, OpenCV, PyTorch	Cloud: AWS, Google Cloud Platform

Positions of Responsibility / Awards

Core Placement Committee Member

BITS Pilani

Aug 2024 – Present

Facilitating company outreach and placement coordination for M.E. CS placements.

Student Faculty Council (SFC) Member

BITS Pilani

Aug 2024 – Present

Representing M.E. CS students in academic and administrative matters.

Best Research Paper Award

Springer

May 2021

International Conference of Cyber Intelligence - Virtual Keyboard Using Image Processing , Computer Vision