Rishab Acharjee

GitHub | LinkedIn | Portfolio | LeetCode | Codeforces | rishab.acharjee12345@gmail.com | +91-7432031131

EDUCATION

National Institute of Technology Durgapur, India   Expected Jun 2026
Bachelor of Technology in Computer Science and Engineering   SGPA: 8.78 | CGPA: 7.6

TECHNICAL SKILLS

Programming:	C, C++, Python, Java, JavaScript, SQL, HLS C++, Verilog
CS Fundamentals:	Data Structures, Algorithm Design, Complexity Analysis, Object-Oriented Design, Operating Systems, Computer Networks, DBMS, SDLC, Systems Design (HLD & LLD), OOPS
AI/ML & Gen AI:	Deep Learning (PyTorch, TensorFlow, Keras), Transfer Learning, Reinforcement Learning, Generative AI, RAG, LangChain, LangGraph, Agentic Systems, Vision Transformers, GANs, NLP, Model Optimization (Quantization, Pruning, ONNX)
Big Data & Cloud:	Apache Spark, Kafka, Ray, Hadoop, AWS (EC2, Lambda, S3, EMR, SageMaker), Azure, Databricks, ETL Pipelines
Databases:	PostgreSQL, MongoDB, MySQL, Firebase, NoSQL, Vector Databases (Pinecone, ChromaDB, FAISS), Data Modeling
Web & APIs:	React, Next.js, Node.js, Express, NestJS, REST APIs, GraphQL, gRPC, Microservices Architecture
DevOps & Tools:	Docker, Kubernetes, Git, Bitbucket, CI/CD Pipelines, Software Testing, Agile/Scrum

WORK EXPERIENCE

Zluri   Expected Jan 2026
SDE Intern (Incoming) | Offer Letter   Bangalore

Infinity Analytics Consultancy   Oct 2025 - Dec 2025
Data Engineer Intern | Offer Letter   Remote
− Architected **real-time data pipelines** with **Apache Kafka** on **Kubernetes**, processing **500K+ events/day**; cut latency by **45%**, achieved **99.9% uptime**.
− Restructured **15+ database schemas** for petabyte-scale data on **AWS S3**; accelerated deployments by **40%**, lowered migration errors by **60%**.
− Executed **data validation** via **AWS EMR + Spark** on **10M+ daily records**; detected **2,000+ anomalies**, improved accuracy by **50%**.
− Established unified **Data Lake** serving **8+ dashboards**; automated monitoring decreased incident response by **65%**.

BOSCH (BGSW) Pvt. Ltd   May 2025 - Jul 2025
AI Engineer Intern | Completion Letter   Bangalore
− Constructed **Generative AI Data Governance Platform** integrating Kafka, IoT, and cloud pipelines for enterprise compliance.
− Orchestrated workflows on **Spark, Ray, Databricks** with **Agentic RAG + vector DBs**; minimized manual checks by **70%**, latency by **35%**.
− Lowered data errors by **40%**, processing time by **30%**; collaborated with **5 engineers** across **10+ departments**.

NIT Durgapur (Prof. Parag Guha)   Jan 2025 - Apr 2025
Research Intern - Hardware-Accelerated AI System   Durgapur
− Engineered VLSI-based AI system using **Vision Transformer + Transfer Learning**, K-Means, XGBoost; achieved **98.9%** accuracy, **60 FPS** on FPGA.
− Integrated **Q-learning (RL) agent** for adaptive thresholds; boosted accuracy by **30%**; cut power by **25%** via **INT8 quantization**.

PROJECTS

Supply Chain Platform: Agentic Approach   Nov 2024
NestJS, Next.js, AWS, CrewAI, Autogen, Docker, LangChain, Firebase, Mapbox   Demo | GitHub
− Launched cloud-native logistics platform for **200+ outlets**; improved forecasting by **25%** using SARIMAX + Digital Twin.
− Implemented **multi-agent routing** decreasing delays by **20%**; architected **PostgreSQL-Firestore** with **RBAC/ReBAC** security.

RAG Chatbot with Document + Video Support   Aug 2023
LangChain, Streamlit, Python, ChromaDB, Generative AI   GitHub
− Created **RAG chatbot** with **vector database**, supporting **50+ PDFs/YouTube weekly**; enhanced retrieval by **60%** via Arxiv/Wikipedia APIs.

ACHIEVEMENTS

- **Juspay Hiring Challenge 2025:** Semi-Finals (**Top 2%** of 1,00,000 participants) among India's top engineering talent.
- **Competitive Programming:** **400+ problems** solved; Codeforces Specialist (**Max Rating : 1447**); **350+** LeetCode solutions.

LEADERSHIP

Senior Coordinator, Inter-NIT Sports Competitions: Aug 2023 - Present
Managed logistics for **3+ national tournaments**, coordinating **100+ participants**.