

SOURADEEP GHOSH

📞 9606596308 | ✉ souradeepghosh608@gmail.com | [in linkedin](#)

Technical Skills

- **Programming:** Python, C/C++, Java, JavaScript, SQL
- **Web Frameworks:** FastAPI, Flask, Streamlit, Dash
- **Cloud & Deployment:** AWS (Lambda, ECS, S3), GCP, Docker, Kubernetes, CI/CD
- **Databases & Search:** PostgreSQL, Elasticsearch, FAISS, ChromaDB
- **Data Streaming & Messaging:** Kafka, Redis, Celery
- **Machine Learning/AI:** Scikit-learn, XGBoost, TensorFlow, PyTorch, SHAP, NLP (spaCy, LangChain, OpenAI API)

Relevant coursework

- Data Structures & Algorithms, Operating Systems, Database Management, Software Engineering

Competitive Programming & Achievements

- CodingNinjas METRON : Rank 15
- Codeforces: ([ghshsour](#)) Rated 1269, anticipate 1400+ by August 2025 and solved ~300 problems
- Codeforces Round 1029 (Div. 3) : Rank 3462 out of 40,000+ participants
- Codeforces Round 1034 (Div. 3) : Rank 4411 out of 40,000+ participants
- LeetCode Contests: ([sour806](#)) Debuted with 1651 rating; solved 250+ problems.

Relevant Projects

Patient Management System using Microservices ([codelink](#)) | Java, Spring Boot, Docker, PostgreSQL, AWS, Kubernetes

- Faced integration issues while scaling services—RabbitMQ was dropping ~20% of messages during high load.
- Resolved it by implementing message retries, persistent queues, and consumer acknowledgements—cut message loss to 0%.
- Containerized 5+ services via Docker Compose and improved startup efficiency by ~35% using parallel dependency bootstrapping.
- Built a fault-tolerant, event-driven architecture handling 1,000+ simulated user interactions per test cycle.

CodeHermes GenAI Agent for Code Intelligence ([codelink](#)) | Python, FastAPI, Next.js, Docker, LLM, CI/CD

- Built a full-stack code intelligence web app using FastAPI (Python) backend & Next.js (TypeScript) frontend.
- Implemented semantic code search and call graph generation for Python & JavaScript codebases, improving search accuracy by 30%.
- Integrated LLM-based QA to answer developer queries, handling up to 500 concurrent requests with <200ms latency.
- Deployed on Docker containers with automated CI/CD pipeline, ensuring 99.5% uptime.

Education

Kalinga Institute of Industrial Technology

Bachelor of Technology in Computer Science and Engineering

Aug 2023 – July 2027

Bhubaneswar, Odisha