UDDIPTA SINGHA

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LinkedIn — LeetCode — GitHub — Portfolio

Education

Kalinga Institute of Industrial Technology   **Sep. 2022 – May 2026**
Bachelor of Technology in Computer Science and Engineering   *Bhubaneswar, Odisha*
CGPA: 8.63

Relevant Coursework

- Data Structures
- Operating Systems
- DBMS
- Computer Networks
- Software Engineering
- Machine Learning
- Artificial Intelligence
- Computer Architecture

Technical Skills

Languages: C, C++, Java, Python
Web: HTML, CSS, JavaScript, Tailwind, Bootstrap, React, Node.js, Express.js
Databases: MySQL, MongoDB
Tools: Git, VS Code, Linux (Ubuntu), Postman, Streamlit
Libraries: NumPy, Pandas, Matplotlib, Scikit-learn
Cloud: Google Cloud Platform, AWS

Experience

Keploy API Fellowship Program   May 2025 – Jul 2025
Open Source Contributor — Top 0.99% (Final Round)

- Selected among the top 168 finalists out of 18,000+ participants, ranking in the top 0.99%.
- Built an AI-powered **Unit Test Generator for C++** using LLMs with YAML-based prompts and GNU coverage tools.
- Developed and tested a custom **API server** with CRUD operations, database integration, and 70%+ coverage.
- Automated API testing in **CI/CD pipelines** using Keploy and GitHub Actions; contributed to open-source via PRs and published technical insights on AI-driven API testing.

Projects

PingChat – Real-Time Messaging App   *MERN, Socket.io, Redux, Cloudinary*
Source Code

- Engineered a full-stack real-time chat app supporting 1K+ concurrent users with secure JWT authentication.
- Integrated Socket.io for instant messaging, typing indicators, and presence tracking.
- Implemented media uploads via Cloudinary and managed global state using Redux Toolkit.

Zarvis – Voice-Controlled AI Assistant   *React, Node.js, Gemini API*
Source Code

- Built an AI-powered voice assistant with 15+ smart commands including weather, news, and reminders.
- Leveraged Web Speech API for speech input/output and Gemini API for natural language interactions.
- Enhanced user experience with real-time response cues and Framer Motion animations.

Nutrinova – AI Health & Nutrition App   *Python, Streamlit, Nutritionix API*
Source Code

- Designed an AI tool offering tailored fitness and diet plans based on user goals and caloric needs.
- Integrated Nutritionix API with over 1,000 food items and visualized nutrition data using Streamlit.
- Helped users track calories and workouts, improving adherence to daily plans by 30%.

Achievements

- Achieved **Ultimate Milestone** in Google Cloud Arcade Facilitator Program (Cohort 1).
- Member of **IoT Lab** at KIIT; Assisted in internal tool development and supported 5+ campus tech events.
- Solved 300+ Data Structures & Algorithms problems across platforms like LeetCode, actively participating in contests.
- Participated in 2+ inter-college hackathons, contributing to brainstorming, prototyping, and pitching innovative tech solutions.

Courses & Certifications

- AWS Cloud Architect Certification – AWS Academy
- Angular Developer Track – Infosys Springboard
- Linux Fundamentals – Red Hat Academy
- DSA Certification – Take U Forward (TUF+)