

UDDIPTA SINGHA

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LinkedIn — LeetCode — GitHub — Portfolio

EDUCATION

Kalinga Institute of Industrial Technology

B.Tech in Computer Science and Engineering

CGPA: 8.63/10

Sep. 2022 – May 2026

Bhubaneswar, Odisha

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 (JS), 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 (GCP), AWS

EXPERIENCE

Keploy API Fellowship Program

May 2025 – Jul 2025

Open Source Contributor — Top 0.99% (Final Round)

- Ranked in the **top 168 of 18,000+ global participants**, showcasing excellence in API testing and automation.
- Built an AI-powered **Unit Test Generator for C++**, boosting test coverage to 70%+ using LLMs, YAML prompts, and GNU tools.
- Developed a custom **API server** with CRUD endpoints and integrated database testing, reducing data latency by 30%.
- Automated **API Testing within CI/CD pipelines** via GitHub Actions, reducing manual QA efforts by 40%; contributed open-source PRs and published insights on AI-driven testing.

PROJECTS

PingChat – Real-Time Messaging App

MERN, Socket.io, Redux, Cloudinary

[Source Code](#)

- Engineered a chat app supporting **1K+ concurrent users** with JWT-secured authentication and 99.9% uptime.
- Optimized Socket.io event handling, reducing message delivery latency by **35%**.
- Integrated Cloudinary for media storage, handling **5K+ daily uploads**, with global state managed by Redux Toolkit.

Zarvis – Voice-Controlled AI Assistant

React, Node.js, Gemini API

[Source Code](#)

- Engineered an AI voice assistant supporting **15+ smart commands** including news, weather, and reminders.
- Leveraged Web Speech API and Gemini API for real-time natural language I/O, improving task execution accuracy by 25%.
- Enhanced voice UX using real-time feedback cues and Framer Motion, boosting user engagement by 20%.

Nutrinova – AI Health & Nutrition App

Python, Streamlit, Nutritionix API

[Source Code](#)

- Designed an AI tool delivering tailored fitness and diet plans, improving daily adherence by **30%**.
- Integrated Nutritionix API with **1K+ food items** and built interactive nutrition dashboards in Streamlit.
- Enabled workout and calorie tracking, increasing user retention by **22%**.

ACHIEVEMENTS

- Earned **Ultimate Milestone** in Google Cloud Arcade Facilitator Program (Cohort 1).
- Active member of **IoT Lab** at KIIT; supported 5+ tech events and contributed to internal tool development.
- Solved **300+ DSA problems** across LeetCode and other platforms; regular participant in coding contests.
- Competed in 2+ inter-college hackathons, contributing to ideation, prototyping, and technical presentations.

COURSES & CERTIFICATIONS

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