

AKSHITA SURE

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LinkedIn

GitHub

LeetCode

Codeforces

EXPERIENCE


Google Summer of Code 2025 Contributor 
GSoC, NumFOCUS, NetworkX

May 2025 – Present

Pull Requests: NetworkX | Nx-parallel

- Accepted into Google Summer of Code with a 5.4% global acceptance rate [View Proposal].
- Developing **Nx-parallel**, a parallel computing backend for the **NetworkX** library in Python.
- Implementing 10+ embarrassingly parallel algorithms achieving 2-4x performance speedups on multi-core systems.

PROJECTS

BlackHole Simulation 
Rust, OpenGL

Ongoing

- Building an interactive 3D simulator of photon paths and accretion-disk appearance around a Schwarzschild and Kerr black hole.
- Engineering camera controls, shader-based ray-marching with CPU integrator fallback, and multithreaded preprocessing for interactive frame rates.

Previously On Netflix 
Flask, Python, JavaScript

December 2024

- Built a web application to analyze Netflix viewing history and deliver personalized insights using TF-IDF-based feature extraction for content recommendations with a 95 % accuracy.
- Integrated engaging features like Netflix Blend for friend-based suggestions and Roast Bot, a chatbot that humorously critiques user binge patterns.

Eventure 
Elixir, Phoenix, PostgreSQL

July 2024

- Designed and built a real-time RSVP management system with live seat availability updates.
- Built core features like user & organizer dashboards and an event broadcast system for upcoming events as part of a 3- day WE BootCamp project.

MENTORSHIPS

Google Women Engineers Scholar
TalentSprint, supported by Google

February 2024

- Selected for Cohort 6 of the Women Engineers Program by TalentSprint, supported by Google as one of the top 1% applicants from over 30,000+ applications.

EDUCATION

Bachelor of Technology in Computer Science and Engineering
Indian Institute of Information Technology, Gwalior

2023 - 2027

CGPA: 8.87

TECHNICAL SKILLS

- Languages**
C, C++, Python, OCaml, Elixir, JavaScript
- Frameworks and Tools**
Flask, Node.js, Phoenix, GitHub, VSCode, Jupyter
- Datasases**
MySQL, PostgreSQL
- Proficiencies**
Data Structures & Algorithms, Object-Oriented Programming, Machine Learning, Deep Learning, Database Management System, Operating Systems

ACHIEVEMENTS

- Achieved a percentile of **98.55** in the JEE Mains Examination conducted by NTA.
- Attained a rating of **1203** (Pupil) on Codeforces.
- Class Representative** for an 80-student cohort for 4+ semesters (2023-Present).

CERTIFICATIONS

Deep Learning Specialization - Coursera
Completed a 5-module coursework on neural networks, CNNs, RNNs, NLP, and deep learning applications.

January 2025

EXTRA-CURRICULAR

- Trained in Carnatic music for over **10** years; performed at multiple inter-college and cultural events.
- Led the logistics team for ByteForge – a **competitive programming contest** at Infotsav, attracting 200+ participants from across India.
- Authored the blogs: **Women Engineers Program**, **GSoC contributions**.