

## EDUCATION

**Indian Institute of Information Technology, Lucknow (IIIT-L)**

2020 - 2024

*Bachelor of Technology in Information Technology (B. Tech)*

*Current CGPA: 8.6/10.0*

## RELEVANT COURSEWORK

**Courses:** Advanced Programming Languages, Business Analytics, Cloud Computing, Computer Networks, Data Structures, Database Management System, Design and Analysis of Algorithms, Distributed Systems, Object-Oriented Methodology, Operating System, Probability and Statistics, Software Engineering, System Management.

**Certifications:** Modern JavaScript ES6 and Working with Big Query by Coursera, Question Reality: Cosmos by Dartmouth

## EXPERIENCE

**Walmart Global Tech** | *Software Development Engineer II*

**July 2023 – Present**

- **Automated Re-ingestion & Verification Workflow on GCP:** Spearheaded the automation of a previously manual bulk data re-ingestion and validation process on Google Cloud Platform (GCP), cutting down operational overhead and reducing manual effort by over 75%, enabling near real-time data accuracy and scalability.
- **Drag-and-Drop SQL Dashboard for Customer Support:** Designed and implemented an intuitive drag-and-drop interface to simulate and run SQL queries on support datasets, empowering the customer support team to resolve issues autonomously and reducing On-Call's engineering load by 40%.
- **Kafka Utility Library for Reusable Messaging Logic:** Engineered a robust, reusable Kafka utility, ensuring consistent message publishing, retry handling, and error logging—resulting in reduced development time and improved operational observability across teams.
- **Rate Limiting & Discard Logic for Internal APIs:** Integrated dynamic rate-limiting and discard logic mechanisms for Kafka producers linked to critical internal APIs, mitigating broker overload during peak load conditions and reducing downstream data spikes by over 40%, ensuring system reliability and smooth consumer experience.

**Walmart Global Tech** | *Software Development Winter Intern*

**January 2024 – June 2024**

- Designed and implemented a high-performance dashboard to monitor the complete lifecycle of returned orders, significantly enhancing visibility and operational efficiency, using Node, ReactJS, and GraphQL
- Widely adopted by associates as a go-to tool for tracking and managing returns.

**Walmart Global Tech** | *Software Development Summer Intern*

**May 2023 – December 2023**

- Enhanced Walmart's Internal Platform tool by implementing a comprehensive system for managing dependency versions, secure identity key generation for CI/CD pipelines, and supervision of streamlined access and module governance.
- Architected a backend gateway filter in Java Spring, reinforcing security measures and ensuring strict authorization protocols for sensitive APIs.

**Zeko, formerly Qricle** | *Frontend Development Intern*

**January 2023 – March 2023**

- Developed a high-end Web app and Admin's dashboard with NextJS and cutting-edge frameworks, while promoting SEO.
- Elevated user engagement with **responsive design** and **seamless interfaces**, driving **customer satisfaction**.

**Open Source Contributions** | *Contributor*

**December 2020 – January 2023**

- **InternetArchive:** Improved frontend and backend workflows, and discussed future community plans.
- **AppWrite:** Enhanced user experience by actively contributing to AppWrite's Base and Supporting Projects.
- **CircuitVerse:** Elevated end-user experience by addressing bugs & issues and enhancing the Main primary codebase.
- **HacktoberFest 2022:** Advanced from Contributor in 2021 to Maintainer for HacktoberFest in 2022. Oversaw, assessed, and upheld code excellence and functionality in the world's largest open-source event.

## PROJECTS

**Self-Hosted Cloud Streaming & Storage** | *Plex, Docker, Cloudflare Tunnels*

**July 2025**

- Built a secure, self-hosted **Plex streaming and file storage platform**, enabling encrypted cross-device access.
- Deployed modular services using **Docker** and open-source modules for scalability and simplified management.
- Implemented **Cloudflare Argo Tunnels** for zero-trust, remote connectivity without exposing network ports.

**Drone Development and Data Classification** [Patent Pending]

**July 2022 – February 2023**

- Managed and led a **government-funded project** with a multidisciplinary team for the *Ministry of Science and Technology* and the Research Team of IIITL.
- Spearheaded the design and hardware assembly of an affordable, open-source Quad-copter(Drone) for agricultural data analysis using **Machine Learning** with Web App integration.

## ACHIEVEMENTS

- Accepted as Contributor in **Google Summer of Code 2022** with ScoreLabs
- **CodeForces Specialist** (Rating 1411) — **CodeChef 4 Star** — **Ranked 7** in Codeforces Round 826
- **Innovator Award** at *Hack-o-Fiesta 2022, IIIT-L Hackathon*

## POSITIONS OF RESPONSIBILITY

- **Core Member** - Google's Developer Student Club, IIIT-L **July 2022 - December 2023**
- **Senior Member** - FOSS Wing, Axios - Technical Society, IIIT-L **March 2022 - June 2024**
- **Technical Team Lead** - WCARL, Research Team, IIIT-L **September 2022 - June 2024**