SOUBHIK KUMAR GON

Bhubaneswar,India·**Github** ·**Email**

Education

International Institute Of Information Technology, Bhubaneswar	**Bhubaneswar,Odisha**
B.Tech Information Technology	*GPA: 8*	Nov 2022 - Jul 2026

Delhi Public School Kalinga	Odisha
GPA: 10	2010 - 2022

Experience

Creuto Cloud — **Remote**
SDE Intern — Jan 2024 - Present
- Developed several APIs for Creuto's **Internal messaging system** using **NestJS and AWS**
- Developed server **APIs and Database ER Models** for **ERP System** using **Feathersjs and MongoDB**

Hacktoberfest — **Remote**
Open Source Developer — Oct 2022
- Implemented **DockerFile configurations** for **NeoGPT** - A locally running **LLM** ,simplifying the setup process, ensuring **consistent environments**, and facilitating integration into various deployment environments.
- Worked on **Tsys Currency Unit Connector integration** in **Juspay-HyperSwitch**: A fast payments switch written in Rust.
- Added language support for **Rust, Ruby, R** and **Golang** in **EasyFix**.

Skills

Languages:	**C, C++, Javascript, Typescript, Golang, Ruby, Python, Bash**
Frontend:	**HTML, CSS, React.js, Next.js, EmbeddedJS, Redux.js, Zustand**
Technologies:	**Node.js, Nest.js, Express.js,Feathers.js Flask, Mux,Docker,Apache Kafka,RabbitMQ**
Data:	**ElasticSearch-Logstash-Kibana(ELK),Numpy, Pandas, Matplotlib**
Cloud & Devops:	**AWS, Azure, GCP, Firebase,Github Actions**
Database:	**MongoDB**

Projects

WatchDog *Apache Kafka,ElasticSearch,Kibana,Bash,Golang* — **Source**

A **distributed fault tolerant Server Monitoring Tool** written in **Golang** for **maintaining vigilance and oversight over servers providing sysadmins with near real-time insights into server health and performance.**
- Engineered a **fault-tolerant microservice** architecture for continuous **CPU health logging**, using **Apache Kafka-Zookeeper** for distributed monitoring.
- Implemented **automated alerts** via **SMTP** mails when predefined avg. CPU load thresholds are exceeded.
- Used **Protocol Buffers** for communication between Microservices, resulting in **55.769 % decrease** in network payload sizes per Publish/Subscribe Calls in comparison to traditional REST Calls.
- Designed a user-friendly **CLI tool** and **bash scripts** using **Golang & open-source frameworks** for easy setup.Also **Tested** responses to **CPU abnormalities** and **stress testing with ~10,000 cURL requests to Elastic Cloud with 0 Failures.**

Tunescape *Next.js,Node.js,Express.js,MongoDB,AWS,* — **Source | Link**

A **Cloud Based** Music Streaming Web Application that allows anyone to push their favourite songs in **Public cloud** and and serve it to people in low latency.
- **Refactored** the **Entire Client Code** from **EJS to Next.js** for better **compatibility with server side APIs** and used **Firebase** for Authentication.
- Wrote **server-side logics** to store raw music files efficiently in an **AWS S3 Bucket**, with corresponding references saved in **MongoDB**
- Utilized **AWS Cloudfront** as a **Content Delivery Network (CDN)** to ensure **low-latency delivery** of music files on user requests.

KoelCLI *C,PortAudio,Javascript,Node.js,Linux,Bash* — **Source**

A **Command Line Interface (CLI) Tool** to play Music using **Terminal** in **Debian OS**.
- Implemented **FFMPEG** and **Bash Scripts** which **decreased network consumption by 40-60%** & **enhance sound quality, reduce lossy compressions** by converting **WAV file** from the fetched **MP3** using **YT-dLP** in the **Host's System**.
- Wrote an **Audio Playback Engine, entirely in C** that **consumes WAV files and plays low-latency Audio** using **PortAudio Library**.

Honors

2nd position Winner : GfG x Geekothon Hackathon — **Geeks for Geeks , D3 Fest**
Collaborated with teammates to create a **web application** for developers to **share and write code in a real time** ,IDE Interface with Video Conferencing feature. — Oct 2023

1500+ Contributions — **Github**
Contributed to Open Source Projects like **Juspay,Palisadoes,OvenSH and more** by majorly by creating issues,PRs and consistently working on own projects. — Oct 2023