

Academics

2021-present	<i>B.Tech. in Industrial and Systems Engineering - Indian Institute of Technology, Kharagpur</i>
CGPA	8.79
2021	<i>Joint Entrance Examination, Advanced</i>
AIR	3884
2020	<i>Higher Secondary School Certificate Examination, CBSE</i>
Percentage	95%
2018	<i>Secondary School Certificate Examination, CBSE</i>
Percentage	96.4%

Projects

Contributed to PtokaX

Worked with one of the most popular server for DC, named as [PtokaX](#) and its scripts by *HiT-Hi-FiT-Hai*. I implemented **automation of server setup and configuration**, as well as ensuring seamless operation through effective management of services and **smart configuration of static IP addresses**, has greatly contributed to the optimal performance of the server. This has further *enhanced my skills in server administration*, and has strengthened my ability to address complex challenges in this field.

FERP

Developed a **browser extension** named FERP that **automates the process of filling feedback forms for course professors in IIT KGP**, available for both *chromium and firefox based browsers*. The extension features random feedback according to three modes - positive, negative and neutral, and **automatically moves to the next course or professor as the previous form is filled**. FERP is designed to save users time and effort in filling out feedback forms, and has been well-received by its users.

KWoC Stats API

I had the opportunity to work on the development of a Stats generation API for [KWoC](#), using the *Golang programming language* and the **go-fiber framework**. The API was designed to fetch the contributions made by participants during the event, with **Postgresql** serving as the underlying database via **gorm**. The generated stats included crucial information such as the number of commits, pull requests, lines added and lines removed for every project the student worked on. This experience allowed me to enhance my proficiency in Golang, API development, and database management.

GSYNC

Gsync is a **BASH** script designed to automate the process of **syncing files and folders from a local *nix system to GitHub in real-time as a service**. It includes essential features such as start, stop, status, restart, enable, disable, as well as **my developed concept of selective-start and selective-stop**. This process is executed in a sophisticated and robust manner, and the tool offers **colored log management** for ease of use.

Code Runner

Code-runner is a tool developed in **BASH** that simplifies the process of compiling and executing code written in various supported languages for ***nix** (Linux and Unix) users. Some of its features include **determining the version of Python (90% accuracy)**, a single command to compile and run code, support for files with spaces in their names, automatic removal of compiled binaries after execution unless specified otherwise, **Vim and VS Code keybindings** to maintain the development flow, and **an integrated debugging mode**.

Own YouTube

YouTube has become a platform for binge-watching and addictive content consumption, resulting in the unwitting waste of a significant portion of our daily time. OWN YouTube is a browser extension that was developed using Javascript. The extension injects custom HTML and CSS for the YouTube frontend in real-time, **allowing users to disable shorts, trending videos, recommendations, and any other visible content**. Additionally, the extension **blocks ads** and offers a few additional features, such as a customized **video speed controller that exceeds the 2x limit** set by YouTube.

Technical Skills

Languages	Golang, Bash, Java, Python, JavaScript, HTML/CSS, C, C++, , LaTeX, lua, Nix-Lang
Data Storage / Handling	PostgreSQL, MySQL, MongoDB
OS Platforms	Nix OS, Unix(Free BSD, Open BSD, Solaris-8,9,10 and MacOS X), Linux 5/6 (Debian, Fedora, CentOS, Arch, Gentoo and their derivatives), Windows (7, 8, 8.1 and 10)
Others	Git and GitHub, Linux System Administration, BackEnd Development, Web Browser Extension Development, Object Oriented Programming, Penetration-testing(Red Team and Blue Team), Gurobi & CPLEX Optimisation.

Activities & Leadership

- Co-Founder, Cybernity:** I established a cybersecurity community to promote its genuine principles and practices, provide training and guidance, and encourage responsible and ethical practices in the field.

- **Core-Team Member, KOSS IIT Kharagpur:** Responsible for promoting and maintaining open-source culture; contributing to tools (campus-centric) such as feedback-automator, [fERP](#), and [timetable manager](#) and successfully organising KWoC-22 ([Kharagpur Winter Of Code](#)) a month long event for promoting open-source development with 1.2k+ participants.

Relevant Coursework		(T)heory and (L)aboratory
Completed	Programming And Data Structures (T/L) Linear Algebra, Numerical and Complex Analysis (T) DIY (L) Basic Electronics (T/L) Probability and Statistics (T) Operations Research-I (T)	
Ongoing	Operations Research-II (T/L)	