Arpit Bhardwaj

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Academics

2021-present B.Tech. in Industrial and Systems Engineering - Indian Institute of Technology, Kharagpur CGPA 8.79
2021 Joint Entrance Examination, Advanced 3884

Projects

MetaHub

PtokaX is one of the most popular server for DC along with 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.

KWoC Stats API

Revamped 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, managed 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.

fERP

fERP is a browser extension 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. It is designed to save users time and effort in filling out feedback forms, and has been well-received by its users.

Own YouTube

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. It has greatly improved users' focus and productivity, leading to better utilization of their time.

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), support for files with spaces in their names, Vim and VS Code keybindings to maintain the development flow, and an integrated debugging mode.

Technical Skills

Languages	Bash, Golang, Java, JavaScript, Python, HTML, CSS, lua, C, C++, LaTeX
Data Storage / Handling	PostgreSQL, MongoDB
OS Platforms	Nix OS, Unix(Free BSD, Open BSD, Solaris-8,9,10 and MacOS X), Linux 5/6 (Debian, Fedora, Cen-
	tOS, 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