

SAROJ MAHATO

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EDUCATION B.Tech in Information Technology 2018-2022
University College of Engineering and Technology, VBU, Jharkhand, India

EXPERIENCE [Package Maintainer, NixOS/Nixpkgs](#) Nov 2021 - present

- Packaged [grapheme](#): A Python package for grapheme aware string handling,
- Packaged [instaloder](#): a tool to download pictures (or videos) along with their captions and other metadata from Instagram,
- Packaged [pydeck](#): Large-scale interactive data visualization in Python.
For easy availability inside a Nix/NixOS Linux environment using **Nix, SHELL.**

[Contributor, Flameshot.org/Flameshot](#) Jul 2021 - present

- Improved documentation,
- Helped set build environment for **Nix/NixOS Linux** Distribution.
using **Markdown, Nix.**

Web-Development intern, Sparks Foundation Jul 2021 - Aug 2021

- Created a [Bank Mockup site](#) using **Reactjs** and automated with **github-actions** to update dependencies using **dependabot.**

[Contributor, Microsoft/Winget-pkgs](#) Jul 2021

- Packaged **WiseCare365**: Windows management utility for winget cli package manager using **POWERSHELL** .

TECHNICAL SKILLS O.S.: Windows, Linux Distributions
Languages: C, C++, STL, OOPS, Java, Shell, Python, Javascript, Reactjs, CSS, SQL, Markdown, Nix
Tools: AWS EC2, OCI, GCP, git, github, github-actions, Nginx, Ansible, networking, CI/CD, docker/podman, docker-compose, ssh, nvim, sed, awk, grep

- PROJECTS**
- [javafx-wallet](#): Built a Mockup Wallet Application in **Java** using **JavaFX**, supports adding money, withdrawing money, list transactions and User Login.
 - [Chatroom](#): Built as a team project an anonymous Chatroom application using **expressjs, nodejs**, allowing users to chat in various rooms using pseudo-names/aliases and deployed in **Oracle Cloud** using **nginx webserver.**
 - [wallscraper](#) : Developed a **Python + Bash** script to search, select and download wallpapers from the terminal via web-scraping wallpaperflare.com
 - [phenic bot](#): Created a **telegram bot** for fetching wallpapers using the **telegram bot api** and **unsplash.com api** built using **Telegraf Javascript** library.
 - [nixos-cfg](#): Built my own version of NixOS(GNU+Linux) Operating System optimised for self-needs by cherry-picking tools, services, packages for my local and Cloud **Infrastructure as Code** in **Nix** and achieved a **reproducible**, preconfigured Local and Cloud Server Setup, reduced manual Operating-System configuration by upto 90%.
 - [arch-latest](#): Created an **ArchLinux Docker** image with few preinstalled utilities like wget, htop, yay etc for improved utility and patched glibc.
 - [blog-crud](#): Anonymous Blogging site, supports **CRUD** operations via **MongoDB Atlas**, created as a team project using **HandleBars, Javascript.**
 - [mzish](#): Created a **Fish Shell theme** and improved productivity, UI and UX by displaying current directory contents (if open terminal is big enough) ,current working directory, git branch/dirty/clean indication, status code, uptime, and a random chess piece in user-friendly UI.

Created and contributed to more Open-Source Projects/College Projects and Organisations to improve my skills and produce impactful results.

- ACHIEVEMENTS AND AWARDS**
- Solved questions related to standard data-structures in **C/C++** on [Hackerearth](#), passed [Hackerrank](#) C(Basic/Intermediate), **Java(Basic)** Test, participated in MANIT CODATHON [2021](#), [2020](#) and other Competitive Coding Challenges.
 - Completed **AWS Training** in [Introduction to Amazon Elastic Compute Cloud \(EC2\)](#).
 - Passed [Linkedin Skill Assessments](#) in **BASH, C, Git, Python**
 - Stood 31'st on Hazaribagh District Level Chess Tournament.

HOBBIES Chess, Football, Learning and Contributing to open-source tools and projects.