

Niladri Dhar

niladridhar1@gmail.com | +91 7439507146 | Kolkata, India

 github |  linkedin

EDUCATION

Bachelor of Engineering - Computer Science Engineering

Nov 2020 - Jul 2024

Dr. Sudhir Chandra Sur Institute of Technology and Sports Complex | GPA: 8.78

Kolkata, India

SKILLS

Programming Languages Python | C++ | C | bash

Technologies AWS EBS/EC2/VPC | Linux | Docker | Ansible | Terraform | Pulumi | git/github | Flask | FastAPI

Skill Linux System Administration | Networking

EXPERIENCE

Zscaler

Feb 2024 - Aug 2024

DevOps Engineer (Intern)

Bangalore, India

- Automated **EC2 provisioning** via **Pulumi**, utilizing Infrastructure-as-Code (IaC) for YAML-based scalable deployments, reducing manual effort by 60%.
- Implemented **Linux automation** using **Ansible playbooks** for setups, package management, and network configurations, improving efficiency and reducing manual effort by 40%.
- Optimized **cloud resource utilization** by creating Python scripts with Boto3 to manage unused AWS resources, saving \$2,000 per month and generating actionable cost-saving insights.
- Engineered a **server benchmarking** tool using **Python Asyncio** to simulate high-load scenarios and deliver comprehensive performance reports.
- Developed and deployed **Flask APIs** to deliver product test results in a more user-friendly and visually engaging manner.
- Automated **CI/CD workflows** by developing and integrating **Slack bots** to manage error and warning notifications, assign tasks, and trigger new builds efficiently.

Stock Register

May 2025 - Present

DevOps Engineer

Bangalore, India

- Containerized **Spring Boot web applications** using Docker and deployed it on **Amazon ECS** with images stored in **Amazon ECR**, resulting in a significant **cost reduction** in the web hosting domain.

PROJECTS

Linkup

<https://github.com/alpha-hexor/LinkUp>

Web Development

- A real time chat application with multimedia attachment feature. This chat application comes with a proper authentication system, chatroom creation, persistent chat history, voice messaging, file sharing, and profile picture features for a dynamic and engaging communication experience.
- Front and back-end development using the HTML, CSS, JavaScript and Flask (Python) frameworks, respectively. To achieve real-time communication, socket.io is used.
- The chats are end to end encrypted using both synchronous and asynchronous encryption algorithm.
- SQLite database is used to store all sorts of user authentication data (hashed format), chat-data and chatroom info.

Twisearch

<https://github.com/alpha-hexor/twisearch>

Web Scrapping, CLI Tool Development

- Twisearch is command line application written in python to gather tweet data from x.com. It was created as part of a sentiment analysis project done by another team.
- It uses specific x.com cookies to authenticate so it doesn't require browser interactions. Then it takes user input for hashtag to search and then saves recent tweets.
- A cursor concept used for pagination of the tweet search. If a cursor is given, it will save tweets after that specific cursor-tweet.

AV Evasion

<https://github.com/alpha-hexor/av-evasion/>

Cyber security

- A Cyber-security project to evade windows defender.
- It creates a custom XOR encrypted payload which will be decrypted in memory during execution thus evading windows defender.
- It opens a new thread in a given PID . Then injects the payload for it's final execution.

Movie-Cli

<https://github.com/alpha-hexor/movie-cli>

Web Scrapping, CLI Tool Development

- Movie-Cli is a python based CLI tool to watch movies/tv-shows just from your terminal.
- It collects movie/tv-shows data from various publicly available sites via various web scrapping methods.
- After collection of required streaming data it will play the media in your local media player without any kind of browser interaction.