

ASEEM MANNA

✉ hello@aseemmanna.me 🔗 aseemmanna.me 🌐 github.com/coolfool

EDUCATION

Savitribai Phule Pune University

August, 2019 - July, 2023

Bachelor of Engineering - Information Technology - CGPA - 8.97

Pune, India

PROJECTS

Ravager 🔗 | Python, Flask, Celery, SQLAlchemy, Redis, Heroku, Docker **04-2020**

- A telegram bot created in python that downloads content in the form of torrent and direct download links and mirrors them 1:1 to google drive
- Used Celery with Redis as message queue for concurrent download, upload and scheduled tasks
- Used Flask with Gunicorn for OAuth2 with google and Python-telegram-bot
- Created Multi-arch Docker image with multi-stage build process for reducing the image size

FlareUp 🔗 | Golang, Heroku, Docker **01-2022**

- Self-hosted and Easy-to-deploy Cloudflare based Dynamic DNS service for router.
- Concurrent updates to multiple domains using goroutines
- Used Heroku for one-click deployment and created multi-arch docker image

Aurishem 🔗 | Python, JavaScript, Linux **02-2022**

- Safe and Easy way to build and install packages directly from Arch User Repository
- Used polkit for gaining elevated permissions and pydbus for notifications
- Created browser extensions for Mozilla Firefox and Google Chrome

Casadora 🔗 | Terraform, Ansible, Oracle Cloud, Docker, Linux **04-2022**

- Deploy Home Server on Oracle Cloud using Terraform and Ansible
- Used and Configured Traefik as a reverse proxy for the services
- Created Ansible scripts for deployment and used Terraform for creating instance and network on Oracle Cloud and domain records on Cloudflare

Vaayu 🔗 | Node.js, ReactJS, Mapbox **05-2022**

- Interactive world map for getting air quality index of any location on earth by clicking on the map
- Created using ReactJS with Mapbox as map provider, Chakra-UI for UI components and RecoilJS for state management
- App hosted on Vercel behind Cloudflare proxy at **vaayu.coolfool.me**

TECHNICAL SKILLS

Languages: Python, Golang, JavaScript, C++

Technologies/Frameworks: Flask, SQLAlchemy, Celery, Node.js, ElectronJS, ReactJS

Databases: PostgreSQL, SQLite, MongoDB, Redis

DevOps & SDLC: Git, Docker, Nginx, Traefik, Kubernetes, Terraform, Ansible, Github Actions

Platforms: Linux, Web, Heroku, Cloudflare, Amazon Web Services, Oracle Cloud, GCP, MS Azure

COURSEWORK

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|--------------------------------|--------------------------------|------------------------------|
| • Data Structures & Algorithms | • Computer Networks & Security | • Database Management System |
| • Operating Systems | • Cloud Computing | • Web Development |

INTERESTS

Capture-the-flag, Competitive E-Sports