

Dhanush D Prabhu

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PROJECTS

GreenOps — Distributed Machine Monitoring & Energy Analysis Platform Python, FastAPI, PostgreSQL, Docker, JWT

- Designed agent-server architecture where machines auto-register using hardware fingerprint and authenticated tokens
- Implemented 60-second heartbeat monitoring with timeout-based offline detection handling intermittent network loss
- Tracked machine lifecycle state transitions (ACTIVE/IDLE/OFFLINE) across continuous runtime sessions
- Built inactivity analysis estimating energy wastage from idle duration intervals
- Designed PostgreSQL schema storing telemetry history and machine state timeline
- Deployed containerized stack enabling consistent multi-system monitoring setup

AWS EC2 Infrastructure Automation Pipeline

AWS EC2, Bash, Linux, SSH

- Built automation scripts provisioning EC2 instances and configuring secure remote access
- Eliminated manual server setup by scripting repeatable environment bootstrap
- Configured instance networking and authentication without console interaction
- Created reusable workflow for rapid infrastructure recreation

ACHIEVEMENTS

- 1st Place — CodeNeura Inter-College Tech-a-Thon
- Selected to Round 2 — EY Techathon
- Winner — Green IT System Development Competition
- Runner-Up — Competitive Programming Tournament

OPEN SOURCE CONTRIBUTIONS

GitHub Contributions

2025 – Present

- Submitted reviewed pull requests modifying existing source code in external repositories
- Interpreted unfamiliar project structures to implement compatible fixes
- Worked through maintainer feedback cycles to reach mergeable changes

TECHNICAL SKILLS

Languages: Python, SQL

Backend: FastAPI/Flask, REST APIs, Authentication

Databases: PostgreSQL, Schema Design

Systems: Linux, Process Monitoring

DevOps: Docker, Git, GitHub Actions, AWS EC2 Automation

CS Fundamentals: Data Structures & Algorithms, Operating Systems, DBMS

Other: Figma

EDUCATION

Bachelor of Computer Applications — PES Institute Of Advanced Management Studies

2024 – 2027