

Amarnath Gangurde

Devops Engineer

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EDUCATION

B-Tech Computer science and engineering
Maharashtra institute of technology

06/2021 – 06/2024
Sambhaji Nagar, Maharashtra

PROFESSIONAL EXPERIENCE

Fullstack developer intern

01/2024 – 06/2024

S2P robotics

Sambhaji Nagar, Maharashtra

BitBlock : In the BitBlock project, we built a drag-and-drop web interface for kids to learn programming by visually creating logic blocks. These blocks were converted into Arduino-compatible code (C/C++), which the platform compiled into a .hex file. Users could then download this file and flash it to an Arduino board via USB using the Arduino IDE or tools like avrdude. Once burned, the Arduino board would execute the program on boot — enabling robots to move, respond to sensors, or perform predefined actions based on the uploaded logic.

Fullstack developer

07/2024 – 12/2024

S2P robotics

Sambhaji Nagar, Maharashtra

S2P Eye : S2P Eye is a real-time CCTV surveillance platform designed to monitor and analyze live video streams from multiple IP cameras connected to a user's local network. We built an Electron desktop app that runs on the user's PC, establishing secure reverse tunnels with AWS over pre-assigned ports — each mapped to a specific CCTV stream. These streams were routed to an EC2 instance where our Node.js API processed the feeds through custom AI models capable of detecting fire, weapons, persons, and license plates. Processed video (annotated output) was streamed back live to the user's Electron app. We also implemented automatic 2-day stream storage on AWS for forensic analysis, followed by scheduled cleanup for cost optimization. The system was designed to scale across multiple camera setups and manage dynamic routing of stream ports on the fly.

PROJECTS

Autoship

Infrastructure on demand

AutoShip is a self-hosted DevOps automation platform designed to provision, configure, and deploy applications using modern Infrastructure as Code and GitOps practices. Built with Node.js, Terraform, Ansible, LXC, K3s, and Docker, it features a custom API ("Infra-Builder") that dynamically provisions Linux containers and Kubernetes workloads, configures them using Ansible, and supports per-user resource isolation with GitHub OAuth. The CI/CD pipeline is powered by GitLab Cloud, with a self-hosted runner ("DevOps Pusher") executing automated deployments and infrastructure changes triggered by GitLab jobs. AutoShip supports real-time scaling of CPU/RAM for containers and enables full end-to-end automation of both infrastructure and application layers, offering a robust and reusable framework ideal for rural cloud education and self-hosted DevOps labs

SKILLS

AWS Solution Architect

AWS Infra management

Git-GitHub, Gitlab

For version control

Gitlab Runner , Jenkins

For Continuous Integration pipeline

Terraform, Ansible

Infra deploy, manage, update

Linux , Kubernatise

Linux administration and container orchestration

Premothous, Grafna

Infra monitoring services

Nodejs Reactjs

Fullstack development

JavaScript, Python, Bash

Programming language

CERTIFICATES

- AWS Solution Artitecture
- Amazon Web services
- Devops