

AVEELASH HOTA

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EDUCATION

Bachelor of Science in Cloud Computing and Automation
Vellore Institute of Technology

Expected Graduation, May 2026
Bhopal, Madhya Pradesh

SKILLS

Frontend: React, Bootstrap, Tailwind CSS

Backend: Node.js, Express.js

Database: MongoDB, SQL

Programming Languages: Python, JavaScript

Cloud and Devops: AWS(EC2), Render, Docker, Prometheus, Grafana, NGINX, Prometheus Pushgateway, Shell Scripting

PROJECTS

MERN Stack E-Commerce App:

- Built with MongoDB, Express.js, React, and Node.js, Features include product listings, shopping cart, user authentication, admin panel for product/user management, and PayPal payment integration.
- Admin Panel:** Admin users can manage products, orders, and users. Role-based access control is implemented to secure admin routes.
- NGINX Setup:** When setting up the project locally, Nginx was utilized to efficiently deliver the React frontend's static assets. Additionally, it acted as a reverse proxy, directing all API requests to the Node.js backend.
- EC2 Deployment:** The app is deployed on an AWS EC2 instance(Ubuntu), with service running using PM2, MongoDB hosted via MongoDB Atlas, and ports managed by NGINX for clean domain routing.
- Production Ready:** Environment variables are used for secure API keys and database credentials. App is structured for scalability and maintainability, with separate folders for frontend and backend.

NGINX Log Analyzer:

- NGINX** access logs are parsed in real-time by a custom script that reads the log files line-by-line without using any plugins or exporters
- The script extracts key metrics such as HTTP status codes from each log entry and converts them into **Prometheus-compatible metrics**.
- These metrics are pushed to **Prometheus via the Pushgateway**, enabling Prometheus to scrape and store them.
- Grafana** connects to **Prometheus** to visualize the collected **NGINX** metrics, allowing monitoring of request counts, status codes, and traffic patterns.
- This setup provides a lightweight, plugin-free way to monitor **NGINX** traffic and status using **logs, Prometheus, and Grafana**.

CERTIFICATION

MERN Full Stack Certification Program

Codemitra, Completed April 2025

- Built full-stack MERN application with React frontend and Express/MongoDB backend.
- Implemented basic CRUD operations to manage and display data.
- Connected frontend with backend for smooth data interaction.