Neeraj Manivarnan

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Github | LeetCode | Blogs

Education

TKM College Of Engineering, B.Tech in Computer Science and Engineering   Nov 2021 – Apr 2025
- **Revelant Coursework:** Data Structures and Algorithms, OOP,DBMS, Computer Networks, Linux Networking.

Technologies

Languages: Java, Python, **Spring-boot**, Spring, MySQL, MariaDB, **Bash Scripting**, Python Scripting.

DevOps Tools : Git, **Linux**, Docker, Kubernetes, Terraform, Jenkins CI/CD, Microservices.

Cloud Computing : AWS (**Certified Cloud Practitioner**),Google cloud platform

Other & soft skills: Code Debugging, Communication, Networking, Team building, collaboration.

Experience

Project Intern, Sedai – Trivandrum, Kerala,India.   Aug 2024 – Apr 2025
- Built a custom kubernetes scheduler for advanced pod scheduling using springboot.
- Reduced memory usage and CPU usage of pods in deployment and statefulsets by 50%.
- Used prometheus and grafana to query metrics like memory usage,pod usage of nodes and pods.

Backend developer, Hestia Web Team – TKM College Of Engineering, Kollam,Kerala.   Mar 2024 – Apr 2024
- Developed a comprehensive sponsor management system for the Hestia's website backend.
- Improved data organizaiton by 75%
- Integrated this system into a website with more than 4000 users.

Projects

TKMTube   Project Link
- Designed and implemented a robust and scalable microservice-based social media platform with 7 microservices
- RESTful APIs with JWT authentication and role-based access control.
- Containerized using Docker and deployed in Kubernetes
- Tools Used: Spring-boot, Open-feign(inter microservice communication), React,Google Cloud Platform.

AWS Infrastructure provisioning with terraform   Project Link
- Designed and provisioned scalable AWS infrastructure using Terraform.
- Resulted in 50% reduction in deployment time and a 30% decrease in configuration errors.

CI/CD Pipeline using Jenkins   Project Link
- Built an end-to-end CI/CD pipeline to automate the SDLC of a Spring Boot application, reducing the manual intervention by 75%.
- Implemented a four stage declarative jenkins pipeline.
- Configured webhooks to trigger builds on code commits and pull requests ensuring rapid feedback.

Certifications

- AWS Certified Cloud Practitioner - **Amazon Web Services**
- Introduction to Jenkins - **The Linux Foundation**
- Meta Version Control - **Coursera**

Extra-Curricular Activities & Positions of responsibilities

- As the Ambassador of FOSS CELL at TKM College of Engineering, championed the FOSS culture by advocating open-source software adoption and organizing 5+ workshops and events.
- Debugging Competition: Secured first prize in a debugging competition at the national level techno-cultural fest organized by the Computer Society of India, TKMCE.