



Ananth Mahesh Kashyap

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WORK EXPERIENCE

01/05/2024 – 31/10/2024 Lohr Am Main, Germany
CLOUD DEVOPS ENGINEER - WORK STUDY BOSCH REXROTH

- Automated the process of deploying architecture diagrams to confluence with GitHub Actions.
- Developed a CI Pipeline to run Integration tests using GitHub Actions.

01/02/2023 – 30/04/2024 Stuttgart, Germany
CLOUD DEVOPS ENGINEER - WORK STUDY ETAS GMBH

- Automated the installation of developer applications using PowerShell scripting.
- Provisioned a Kubernetes cluster on AWS EKS utilizing Terraform for Infrastructure as Code (IaC).
- Implemented Karpenter as a cluster autoscaler solution for existing Kubernetes clusters.
- Configured and managed self-hosted GitHub Actions runners deployed on AWS EKS for enhanced CI/CD performance.
- Developed and implemented a CI/CD pipeline using GitHub Actions with self-hosted runners on AWS EKS.

27/01/2021 – 16/09/2022 Bengaluru, India
DEVOPS SRE TATA CONSULTANCY SERVICES

- Executed software rollout on multiple instances on production servers.
- Decreased the overall cost of AWS resources in our project by 30% with the help of cloudhealth and aws cost explorer.
- Migrated an application from CloudFormation to Terraform.
- Monitor the application's infrastructure code and ensure zero vulnerability.
- Rotated AMI on a regular basis to avoid security breach.
- Found a way to get notified when a deployment is complete by integrating Jenkins and New-Relic.

EDUCATION AND TRAINING

17/10/2022 – CURRENT Stuttgart, Germany
MASTER'S IN INFOTECH University Of Stuttgart

Address 70569, Stuttgart, Germany

01/08/2016 – 01/06/2020 Bengaluru, India
B.E - ELECTRONICS AND COMMUNICATION Dr. Ambedkar Institute Of Technology , Visvesvaraya Technological University

Website <https://www.drait.edu.in/> | **Final grade** Final Grade 8.83

DIGITAL SKILLS

Cloud Computing

Kubernetes | Amazon Web Services | Docker (basics) | Terraform | New Relic | Microsoft PowerShell | Karpenter | Microsoft Azure | GitHub Actions | Jenkins

Software Development

Basics Of Python | C Programming | Puppet (Basic knowledge) | Jira

Operating System

Linux (Ubuntu) | Windows

Tools

Visual Studio Code | Git | CloudHealth cost analysis tool | Knowledge of New Relic | Lens IDE

● PROJECTS

15/11/2023 – 15/05/2024

Kubernetes-driven ML Workloads: Metrics for Optimization (Research Project)

Associated with University of Stuttgart

Department - Institute for Architecture of Application Systems (IAAS)

- * Researched on HW and SW based tools used to measure power consumption of client workloads.
- * Elaborate research on Kubernetes Efficient Power Level Exporter (KEPLER) which uses e-BPF and ML models to estimate power consumption at K8s pod/container level.
- * Implemented Kepler on GPU accelerated Minikube K8s Cluster having access to NVIDIA GPU.
- * Trained CNN and Siamese Network models on the cluster and analyzed power metrics exported by Kepler using Grafana.
- * Patterns in power consumption metrics of the ML models were studied in order to decrease the power consumption of the workload.

01/02/2019 – 30/06/2019

Cloud Computing Based Gravity Control Security System

Associated with Dr. Ambedkar Institute Of Technology

A Cloud based security system which uses an embedded system (Raspberry Pi) to monitor the change in weight with the help of a load balancer and responds with a security alarm.

● CERTIFICATIONS AND AWARDS

Udemy Certifications

- **Jenkins** - Learnt about Jenkins build tool and its usage in CI/CD pipeline.
- **Microsoft Powershell** - Gained knowledge on powershell as a scripting language.
- **Terraform** - Acquired expertise in Infrastructure as code using terraform's HCL

01/12/2018 – 28/02/2019

Python

Gained a good amount of programming knowledge in Python.

National Level Techno Exhibition

Demonstrated a technical project named "Armed Rover" as a part of a team in the National Level Techno Exhibition organized by Dr. Ambedkar Institute Of Technology.

● LANGUAGES

Languages Known

1. Kannada (Mother Tongue)
2. English
3. German (A1)
4. Hindi