



Avinash Rode

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DIGITAL SKILLS

DevOps | AWS | Docker | Kubernetes | Terraform | Jenkins | Ansible | Prometheus | Grafana Montironig | Azure | Azure Devops | Git | Python | intellectually curious | Microservices | Microsoft Fabric | Linux | Technical Support | Communication | Interpersonal Skills | Problem Solving

WORK EXPERIENCE

01/04/2024 – CURRENT Mülheim ad Ruhr, Germany
DEVOPS/CLOUD ENGINEER SYNAXUS GMBH

1. Deployed various Azure resources using Terraform, ensuring efficient and scalable cloud infrastructure.
2. Implemented an end-to-end CI/CD pipeline in Azure DevOps. Integrated Azure Data Factory with Azure Repos to automate build and release processes, enhancing development efficiency.
3. Established a secure connection between on-premise SQL Server and Microsoft Fabric using an on-premises data gateway, ensuring seamless data integration.
4. Created data migration pipelines in Microsoft Fabric for Power BI reports, enhancing data transfer and report generation for business intelligence.
5. Integrated Prometheus for monitoring and Grafana for visualization, setting up comprehensive monitoring solutions that tracked system performance and provided actionable insights through custom dashboards.

01/01/2023 – 30/03/2024 Mülheim ad Ruhr, Germany
WORKING STUDENT AS DEVOPS/CLOUD ENGINEER SYNAXUS GMBH

1. CI/CD and Development Tools: Utilizes GitHub for version control, Jenkins for CI/CD orchestration, Docker Hub for container image management, and Terraform for infrastructure provisioning.
2. Cloud Infrastructure: Built on AWS, leveraging a VPC with private and public subnets, NAT Gateway and Internet Gateway for traffic management, and Route Tables for routing rules.
3. Kubernetes and Monitoring: Deployed using Amazon EKS with Application Pods for the core app, Prometheus Pods for monitoring, and Grafana Pods for visualization.
4. Traffic and DNS Management: Application Load Balancer (ALB) distributes traffic, while Amazon Route 53 and Hostinger DNS handle domain name resolution.

EDUCATION AND TRAINING

31/08/2019 – 30/09/2023 Siegen, Germany
MASTERS IN MECHATRONICS Universität Siegen

01/08/2013 – 03/05/2017 Chennai, India
BACHELORS OF TECHNOLOGY Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology

Address 600062, Chennai, India

04/07/2012 – 26/05/2013 Latur, India
HIGHER SECONDARY SCHOOL CERTIFICATE Jawahar Navodaya Vidyalaya

PROJECTS

28/04/2023 – 30/10/2023
Masters Thesis - An Implementation of an Automated System for Fault Injection

- The thesis involves creating and automating a network simulation in OMNET++.
- The simulation utilizes scheduled files from SNAP, containing task details for efficient resource allocation.
- By implementing a self-organizing system, we aim to ensure timely completion of tasks.
- Evaluation involves running OMNeT++ simulations with diverse scenarios, including various fault injection types.
- The goal is to improve complex embedded real-time systems by integrating OMNET++, SNAP schedules, fault injection, and bash shell scripting.
- leveraging automation for code execution and data handling with minimal human intervention.

10/09/2021 – 15/09/2022

Student Project - Process Automation

- Automated the whole workflow in a single file for inexperienced users on the University Cluster.
- For example, the process of executing different codes, making changes in every single file, moving the files to the desired location, and deleting unwanted files.
- Executing codes manually will be a time-consuming and challenging task because there are thousands of files.
- Generated data JSON files from SNAP library using existing code with making changes to automate its topology and other parameters.
- Using a Genetic Algorithm used to optimize the JSON files for machine learning.
- Graph Neural Network used for training the data which was saved in pickle files.
- Skills: Bash Shell Scripting, Python, Machine Learning.

CERTIFICATIONS

28/11/2023 – 28/11/2026

AWS Certified Developer – Associate

- Deep understanding of managing the entire life cycle of applications.
- Proficiency in writing applications using AWS service APIs, AWS CLI, and SDKs.
- Utilization of containers for application development, is a crucial aspect of modern cloud computing.
- Develop, deploy, and debug cloud-based applications using Continuous Integration/Continuous Deployment (CI/CD) pipelines.
- Ability to develop applications that adhere to AWS best practices, ensuring high-quality and efficient cloud-based solutions.

Link <https://www.credly.com/earner/earned/badge/7dac429a-8d65-4486-8c52-7e0cb0ce8f11>

21/09/2022 – 28/11/2026

AWS Certified Cloud Practitioner (CLF)

Link <https://www.credly.com/earner/earned/badge/879ae22f-107d-40d8-a821-3f2684e54aaa>

10/10/2022 – CURRENT

Kubernetes Certified Application Developer (CKAD)

Link <https://www.udemy.com/certificate/UC-c2c22e97-7590-4e13-a9ac-93e56d1f25b3/>

12/10/2022

Kubernetes Challenges

Link <https://kodekloud.com/certificate-verification/86017B99AE-2D0F9B04D6BD-85F5EB3E86/>

28/09/2022 – CURRENT

Docker for the Absolute Beginner - Hands On - DevOps

Link <https://www.udemy.com/certificate/UC-f5c0c1b2-c4ee-4729-a0d4-c3bf09ad4df5/>

29/10/2022

Terraform for the Absolute Beginners

Link <https://www.udemy.com/certificate/UC-e71f45de-e019-48df-9ddb-f64642fbf362/>

18/10/2022

GitLab CI: Pipelines, CI/CD and DevOps for Beginners

Link <https://www.udemy.com/certificate/UC-b1fcd0a4-65c7-4ad9-b0c0-8c35df64b2c8/>

GOETHE CERTIFICATE B1

Link <https://drive.google.com/file/d/1ztrb1llxbWoAXtLHLvuiSXszDhLmCvwj/view?usp=sharing>

02/02/2019 – CURRENT

Model-Based Automotive Systems Engineering

Link <https://courses.edx.org/certificates/69776c86ae094d11aef10da1792fd6b0>

25/11/2019 – CURRENT

Introduction to Engineering Simulations

Link <https://courses.edx.org/certificates/4bd799ff138940a0a470257abde237ff>

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LANGUAGE SKILLS

Mother tongue(s): MARATHI | HINDI | ENGLISH

Other language(s): GERMAN