

Akash

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EDUCATION

- **JSS Academy of Technical Education** Bangalore, India
Bachelor of Technology - Mechanical; GPA: 8.2 *July 2018 - June 2022*
- **Kendriya Vidyalaya Sangathan** Bangalore, India
High School; GPA: 7.8 *July 2006 - June 2018*

SKILLS SUMMARY

- **Languages:** Bash/Shell, Groovy, JavaScript
- **Frameworks:** React.js, Bootstrap
- **Tools:** Kubernetes, Ansible, Maven, Jenkins, Docker, Git, GitHub, HTML, CSS
- **Platforms:** Linux, Web, AWS

TECHNICAL SKILLS

DevOps

- Proficient in version control systems, with hands-on experience in Git. Experienced in using Git for managing code, collaboration with team members, and tracking changes in projects.
- Hands-on Experienced in using Ansible for automation and configuration management. Proficient in writing Ansible playbooks and using Ansible modules to manage infrastructure and deploy applications.
- Proficient in using Ansible Vault for secure storage and management of sensitive data such as passwords and certificates. Proficient in encrypting and decrypting data using Ansible Vault, and integrating it with Ansible playbooks.
- Experienced in using Maven for build automation and dependency management. Proficient in writing pom.xml files and using Maven plugins for various build tasks such as compilation, testing, and packaging.
- Experienced in setting up and maintaining Jenkins High Availability (HA) environments for continuous integration and delivery. Proficient in configuring load balancing, backup and recovery, and failover mechanisms for Jenkins master and slave nodes.
- Experienced in integrating Maven plugin, PollSCM, and upstream/downstream projects in Jenkins for continuous integration and delivery. Proficient in configuring builds, triggers, and dependencies, as well as monitoring build statuses and artifacts.
- Experienced in creating and deploying Docker containers, utilizing Dockerfiles for building images, and managing volumes and networks. Proficient in automating deployment processes, scaling applications, and ensuring efficient resource utilization.
- Experienced in setting up and managing Kubernetes clusters using Minikube, and deploying and scaling applications. Proficient in configuring network policies, resource utilization, and load balancing strategies.

AWS

- Proficient in AWS services, with hands-on experience in load balancing and auto-scaling. Successfully implemented load balancing and auto-scaling solutions for multiple projects on AWS
- Used CloudWatch for monitoring and logging of multiple AWS resources and applications.
- Designed and implemented scalable and secure data storage solutions using S3, including the use of S3 Buckets, and S3 versioning.
- Proficient in AWS services, with hands-on experience in Amazon Elastic Block Store (EBS) volume migration, snapshots, and backups. Implemented secure and efficient data migration and backup solutions using EBS volumes, snapshots, and the AWS Backup service.
- Successfully executed the migration of Amazon Elastic Block Storage (EBS) snapshot from one availability zone to another and one region to another region
- Successfully deployed and managed website on S3 buckets, leveraging S3's scalability, security, and low-cost storage.
- Designed and implemented scalable, secure, and cost-effective content delivery solutions using CloudFront, including the use of CloudFront distributions, edge locations, and custom origins.

- Implemented secure and efficient backup and disaster recovery solutions using Amazon Elastic Compute Cloud (EC2) instances, Amazon Elastic Block Store (EBS) volumes, and AWS Backup service.
- Experienced in creating tables, performing scan queries, and implementing NoSQL database solutions to meet business needs.
- With hands-on experience in Amazon Relational Database Service (RDS) and Amazon Elastic Compute Cloud (EC2). Experienced in deploying and managing RDS MySQL servers, and connecting them with EC2 instances to support web applications.

Linux

- Good Knowledge in User and Group administration on Red Hat Linux servers.
- Controlling Access to Files with ACL, default permissions and special permissions.
- Can set permissions for individual users or groups, enabling them to access or modify files and directories as needed.
- Knowledge of archiving and transferring files.
- Knowledge of Package management through rpm and yum.
- Knowledge of creating and managing Files and folders using command-line tools.
- Managing disk space, processor utilization, and network utilization related to servers.
- Proficient in using the ping command to test network connectivity and diagnose network issues.
- Proficient in various backup and recovery tools, tar, with experience in performing full, incremental, and differential backups. Skilled in using various storage media such as cloud storage and tape drives.
- Knowledge of configuring and managing the SSH, DNS, Apache Web Server, FTP, DHCP.

PROJECTS

DevOps Project

- **Automated Web Application Deployment on Tomcat Server using Jenkins:**
 - Implemented an automated deployment process for a web application on a Tomcat server using Jenkins and the Deployed using kubernetes.
 - Configured Jenkins job to build and package the application as a WAR file and set up post-build action to deploy the WAR file to the Tomcat server.
 - Ensured consistency and accuracy in the deployment process by employing Groovy Script and Jenkinsfile.
 - Implemented a multibranch pipeline, integrated a webhook, and incorporated automatic software versioning practices.

AWS Project

- **Load Balancing and Autoscaling for High Availability and Scalability in AWS:**
 - By implementing Load Balancing, incoming traffic is evenly distributed across multiple instances, ensuring optimal resource utilization and preventing any single point of failure.
 - Additionally, Autoscaling dynamically adjusts the number of instances based on demand, automatically scaling up or down to handle varying workloads, ensuring the system can handle increased traffic and maintain consistent performance.
 - This combination ensures a resilient and efficient infrastructure capable of handling increased load and providing a seamless experience to users.

Tech: AWS EC2, Elastic Load Balancing, Auto-Scaling

React Project

- **Single Page Applications:**
 - Personal Portfolio Website - This website is created using Advanced animations and comprise of five sections i.e, home, about, skills, projects and contact.
 - Random quote generator App - Random quote is fetched through a API. In this quote app, each time you click on the new quote button you'll get a new quote. You can also convert a quote to speech, copy a quote, or share a quote on Twitter by clicking the given button.
 - Social media dashboard with theme switcher - Implemented a Light/Dark mode toggle switch and made is responsive for all devices.

Tech: HTML, CSS, JavaScript, ReactJs, FramerMotion

CERTIFICATION

- **AWS Solutions Architect Associate, Linux and DevOps**
Training has been successfully completed at Besant Technologies

Bangalore, India
 Apr 2023 - July 2023