SANCHIT SINGH SANDY

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EDUCATION

Georgian College Barrie   Jan 2022- Aug 2022

Graduate Certification in Mobile Application Development

University of Jammu, Jammu and Kashmir, India   Aug 2015- July2019

B.E in Computer Science

RELEVANT COURSES AND SKILLS

- **Programming Languages   Adept:** Python, C++, SQL   **Familiar:** C, JAVA

- **Technologies and Tools:** Docker, Kubernetes, CI/CD Pipelines (Jenkins), Infrastructure as Code (Terraform), System Administration, Configuration Management (Ansible), Scripting, Troubleshooting, Maven, Nexus, DevOps, Automation, SonarQube, Trivy, YAML, Prometheus, Grafana

- **Cloud Technologies:** AWS Certified Cloud Practitioner (EC2, S3, Lambda, IAM, EKS, RDS, DynamoDB, CloudFormation, ECS, CloudWatch), Azure (Virtual Machines, Blob Storage, Azure Functions, Azure Monitor)

- **Operating Systems:** Windows, Linux, MacOS

WORK EXPERIENCE

Home Depot, Canada
DevOps Engineer

- Designing DevOps workflow for multiple applications by orchestrating Test, Build, Release and Deploy phases through various CI/CD pipelines using Git, Jenkins, Docker, Kubernetes, Ansible & Cloud formation tools.
- Deploy and monitor scalable infrastructure on Amazon web services (AWS) & configuration management using Ansible.
- Improved system monitoring and alerting, achieving 99.9% uptime for critical services.
- Containerized applications using Docker and orchestrated them with Kubernetes, leading to a 25% improvement in application scalability.

NITS Polytechnic, Jammu, India
IT and Cloud Support

- Executed software installations and hardware setups on 50+ systems with 100% compliance, and deployed AWS EC2 virtual machines for lab environments.
- Ensured data security with IAM roles and AWS KMS encryption and managed over 2 TB of data using AWS S3 with configured policies and lifecycle rules.
- Ensured data security by implementing IAM roles and policies, encrypting data using AWS KMS.

PROJECTS

- **DevSecOps Integration for Node.js Application using Jenkins CI/CD:** Implemented Jenkins CI/CD pipeline for automated build, test, and deployment, boosting deployment speed by 40% and frequency by 30%. Integrated SonarQube for code quality improvement (25% less code smells, 20% better maintainability), Trivy for container security (100% compliance), and OWASP tools for vulnerability management (95% critical vulnerabilities mitigated).

- **Three-tier Application Deployment:** Deployed a 3-Tier Application on AWS EKS, using Kubernetes to manage 2 EC2 nodes. Created and pushed Docker images for the frontend and backend to Amazon ECR. Configured an Application Load Balancer using a Helm chart and set up Ingress, making the application accessible via a custom domain.

- **Terraform AWS Project**: Implemented Terraform for Infrastructure as Code, creating reusable modules and leveraging S3/DynamoDB for state management. Achieved high availability, scalability (99.9% uptime), and streamlined deployments with efficient AWS resource provisioning.

CERTIFICATES

- AWS Certified Cloud Practitioner
- Azure Fundamentals 900