Nishant **Singh**

✉ talktonishantsingh.ns@gmail.com | ☐ +91 6352403156 | ⚲ Bhopal, MP | 🔗 tesla59 | ⌨ tesla59

Education

Indian Institute of Information Technology Bhopal _Bhopal, MP_
B.TECH IN INFORMATION TECHNOLOGY | GPA: 8.71 _Dec, 2021 – Present_

Work Experience

GoComet Pvt Ltd _Bangalore_
DEVOPS ENGINEER INTERN _Oct, 2023 – Present_
- Established a robust monitoring infrastructure by configuring proactive alerts for PostgreSQL 13, specifically targeting the long idling transactions, locks and max concurrent connections, providing immediate visibility into potential issues and enabling swift resolution
- Spearheaded the daily deployment process of production code through a enhanced rolling deployment strategy on Kubernetes, orchestrating seamless updates across 5+ systems and leveraging automated tools to minimize downtime & enhance system reliability
- Enhanced operational insights by setting up Fluentd logging agent to push detailed, enriched application logs to New Relic, facilitating comprehensive analysis and streamlined troubleshooting the intricacies and heightened understanding of application behavior

Mobilicis India Pvt Ltd _Remote_
DEVOPS ENGINEER INTERN _Jun, 2023 – Oct, 2023_
- Executed a successful comprehensive migration involving the seamless transition of 300+ repositories from Bit Bucket to GitHub
- Implemented comprehensive testing methodologies and conducted over 50 robust tests to guarantee the establishment of secure and enabled hierarchical access controls for the repositories and the CI/CD pipeline, thereby enhancing overall development efficiency
- Pioneered successful implementation of 8+ robust Jenkins-based CI/CD pipeline, automating build, test, and deployment processes

The Renal Project _Remote_
DEVOPS ENGINEER INTERN _Jul, 2022 – Apr, 2023_
- Led the design, implementation, and maintenance of automated CI/CD pipelines for code deployment using GitHub Actions, resulting in 30% improvement in development and testing efficiency by strategically eliminating 70% of manual deployment processes
- Administered successful migration of 4+ servers from Oracle Cloud Infra to AWS Cloud, employed Terraform to implement declarative methodologies and facilitated the adoption of AWS Elastic Kubernetes Service (EKS), replacing traditional Docker deployment

Projects

WhisperWeb _tesla59/whisperweb-backend_
GO, FIBER, REST APIS, SQLITE, DOCKER
- Developed a confession website using Fiber web framework in Go for back-end using SQLite 3 as the DBMS to store and retrieve data
- Designed the front-end part using Next JS 13 capitalising Server-Side Rendering (SSR) pattern to enhance performance and experience
- Containerized the website using Docker ensuring portability and reliability across different environments and easy deployment

Shell JS _tesla59/shell.js_
NODE JS, LINUX, BASH, REPL
- Innovated and developed a custom Bash-like Shell using Node.js version 16, using built-in asynchronous libraries in JavaScript
- Redesigned asynchronous libraries to optimise performance, enabling concurrent execution of commands like CD, LS, PWD etc

Hydra Kernel _tesla59/hydra_kernel_
C, LINUX, LINUX KERNEL
- Acted as an Open-Source Developer and modified the Android Kernel based on v4.14 for Redmi Note 7 Pro for enhanced efficiency
- Increased performance by 20% in benchmark and reduced battery consumption by 10% in daily usage in comparison to stock kernel

Skills

Languages: Go, Rust, TypeScript, JavaScript, Ruby, Dart, Python, Kotlin, C, C++
Tools: Docker, Kubernetes, Terraform, Ansible, Git, ArgoCD, SQL, Jenkins
Frameworks: Flutter, React JS, Gin, GoFiber, Gorm, Express JS, Next JS
Platforms: Linux, AWS Cloud, Azure, Google Cloud Platform, Oracle Cloud Infrastructure

Certificates

Jan, 2024	**Google Cloud Certified Professional Cloud Architect**, Successfully achieved certification as a Google Cloud Professional Cloud Architect, showcasing expertise in architecting secure and complex solutions with high scalability and availability on the Google Cloud Platform	_Google Cloud_
Nov, 2023	**Google Cloud Certified Associate Cloud Engineer**, Successfully achieved certification as a Google Cloud Associate Cloud Engineer, showcasing proficiency in designing, implementing and managing cloud solutions on the Google Cloud Platform and mastery in skills within Google Cloud	_Google Cloud_