Nishant **Singh**

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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 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

GoLoadBalancer *tesla59/GoLoadBalancer*
Go, Docker, Load Balancer, Concurrency
- Developed GoLoadBalancer, an automatic load balancer with round-robin functionality, inspired by Kubernetes operator architecture
- Leveraged Goroutine and Docker to spawn 3+ load balancer to balance the incoming load and 5+ workers to handle incoming request
- Incorporated SQLite 3 Database to store and provide real-time statistics such as of all workers such as average failure rate and delay

WhisperWeb *tesla59/whisperweb-backend*
Go, Fiber, REST APIs, SQLite, Docker
- Coded a HTTP Server 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

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**, Mastered certification for the Google Cloud Professional Cloud Architect exam, 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**, 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*