SUMIT DETHE

+91 7049206912
milinddethe6@gmail.com ◇ linkedin.com/in/sumit-dethe ◇

SKILLS

Languages	Python, Bash, Java, Node.js
DevOps Tools	Kubernetes, Docker, Jenkins, Terraform, GitHub Actions, GitOps, Helm
Cloud	Google Cloud Platform (GCP), AWS
Database	Postgres, MongoDB

EXPERIENCE

Jr. Associate Software Engineer Oct. 2023 – Present
Unthinkable Solutions *Gurugram, India*

- Architected and Deployed: Designed and implemented a secure, scalable microservices-based application on **Google Kubernetes Engine** (GKE). This approach led to a 20% reduction in deployment times and enhanced overall security. CI/CD Pipeline Engineering: Developed comprehensive CI/CD pipelines using Jenkins to automate the deployment lifecycle, significantly streamlining development workflows.
- **Secure Remote Access**: Utilized TinyProxy and **GCP Identity-Aware Proxy** (IAP) to securely connect with a private server, serving as a bastion host to the GKE cluster. This setup provided secure and controlled access to internal resources while maintaining robust security measures.
- **Cloud Database Management & Performance Optimization** Leveraged GCP Query Insights to identify and optimize high-latency, resource-intensive queries. Collaborated with developers to enhance database performance by **25%**, reducing Cloud SQL configuration tiers and associated costs. Configured and managed PostgreSQL in Cloud SQL, Redis in Memory Store, and MongoDB. Implemented automated backup scripts on a jump server to securely store backups in Google Cloud Storage (GCS), ensuring data integrity and availability.
- **Serverless Microservices**: Designed and implemented a serverless microservices architecture on **Google Cloud Run**, enhancing scalability and performance. Achieved dynamic resource allocation with on-demand scaling, reducing latency by 40% and supporting up to 1,500 concurrent requests per second.
- **Infrastructure as Code (IaC)**: Automated cloud infrastructure management with Terraform, enabling consistent and efficient deployment of resources. This approach facilitated cost savings through effective resource management and provisioning.
- **QA Environment Deployment**: Delivered a fully operational QA environment under tight time and budget constraints by deploying a microservices architecture with Docker Compose on an Compute Engine instances. Hosted PostgreSQL, MongoDB, Redis, and Elasticsearch on a second EC2 instance, achieving a **40%** cost saving compared to traditional setups.
- **Code Quality Assurance & Monitoring and Performance Tuning**: Employed Prometheus and Grafana for continuous monitoring and performance tuning of the QA environment, ensuring high reliability and optimal resource utilization. Integrated SonarQube into Bitbucket CI/CD pipelines for continuous code quality analysis, resulting in a **10%** improvement in code quality metrics and adherence to best coding practices.

PROJECTS

ContentSummarizer. Developed a Chrome extension to simplify summarizing and extracting key points from webpages, addressing information overload. Utilized the advanced capabilities of the GPT-3.5 Turbo model from OpenAI to deliver cutting-edge summarization functionality. Implemented features to extract major points and essential information from lengthy articles and websites, significantly improving user productivity.

Custom CI Tool. Created a containerized Flask-based continuous integration (CI) tool. The tool allows users to pass a repository URL and branch name, then automates cloning the repository, building a Docker image, and pushing it to Amazon ECR. Enhanced the frontend to display real-time updates on pipeline stages, improving transparency and user interaction during the CI process.