SUMIT DETHE

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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.
- **Data Replication and Performance Optimization**: Utilized GCP Datastream to replicate data from Cloud SQL to BigQuery, enabling efficient real-time data analysis. This approach significantly improved query performance, which was not achievable with direct Cloud SQL PostgreSQL queries, ensuring optimal data handling and insights.
- **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.
- **Web Applications**: 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.

PROJECTS

ContentSummarizer: Github

Developed a Chrome extension to simplify summarizing and extracting key points from webpages, addressing information overload. 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.