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Sabir Ali
Backend Developer

Indore (M.P.)
India

TECHNOLOGIES AND FRAMEWORK
- Programming language- **Go (Golang), Python, C/C++, JavaScript, Shell Scripting.**
- Database- **PostgreSQL, MongoDB, SQL, S3, DynamoDB, AWS Redshift, Redis.**
- Frameworks/other tools and Tech- **Kubernetes, Docker, GRPC, AWS, Azure, GCP, git, jenkins CI/CD.**
- Domain- **Storage, Cloud Computing, ML, AI, Blockchain.**

EMPLOYMENT   Total Experience **5+ years**

Senior Software Engineer	Spectro Cloud	Oct 2024 - Present

Palette by *Spectro Cloud* **:-** A **Kubernetes**-based platform that simplifies deployment, scaling, and lifecycle management of clusters across **hybrid, multi-cloud, and edge** environments with enterprise-grade governance.
- Designed a high-performance **gRPC**-based tunnel in **Golang** for clients with clusters on private networks that block TCP, enabling secure operations like SSH, Kubernetes access, and reverse connections, while efficiently handling 1000+ connections and 100+ operations per minute per connection.
- Integrated Velero into Palette's agent, enabling seamless backup and restore operations, ensuring enhanced data protection and disaster recovery.
- Integrated Cluster API (CAPI) for lifecycle management, enabling automated scaling of 1000+ clusters per customer and reducing deployment time by 80%.
- Integrated Metrics Server and webhooks to provide real-time monitoring and centralized visibility of cluster performance through a unified dashboard.

Backend Developer / Devops Engineer	Infobeans Technologies	July 2022 - Oct 2024

Astra and Insights by *NetApp***:-** Astra is a plugin connecting **ONTAP** to **VmWare** Clients, simplifying datastore access. Insights, a monitoring and optimization tool for resources and applications, on-prem or in the cloud.
- Designed and developed scalable **microservices** using **Golang**, leveraging **concurrency** patterns with **Goroutines**, and integrating **Docker**, **Kubernetes**, **Kubebuilder**, and **gRPC** for efficient service communication. These microservices acted as a critical bridge between ONTAP and vSphere, ensuring robust interoperability.
- Established **CI/CD** Pipeline for project Insights using **Jenkins**,configurations using **Python** and **Shell**, reducing manual errors and setup time by 25%.

Flashblade by *Pure Storage***:-** High-performance storage solution for modern data workloads.
- Automated 50+ **Jenkins** pipelines, improving efficiency for 10,000+ VMs and testbeds. Ensured 99.99% uptime and reliability, enabling seamless automated testing and boosting overall system performance.
- Implemented **KubeVirt** to enable seamless coexistence of VMs and containers on **Kubernetes** and **OpenStack**, reducing infrastructure provisioning time by 30%.
- Leveraged **Temporal, Golang, Python Scripting, and Ansible** for effective automation for long running jobs.
- Oversaw a robust 80 TB **PostgreSQL** database with **high availability, sharding, and backup** solutions.
- Leveraged **Kafka** for real-time job updates, integrating **GitHub** with **Jenkins** to automate builds upon code pushes.

Backend Developer	Catalogic Software Pvt. Ltd. Pune	June 2021 - June 2022

CloudCasa by *Catalogic***:-** CloudCasa is a user-friendly **Kubernetes** and cloud database backup service for **DevOps**.
- Developed APIs using **EVE** (Flask framework) as part of a 20+ member team for CloudCasa. Responsible for implementing key functionalities such as Role-Based Access Control (RBAC), lifecycle management, and other critical operations to enhance platform usability and efficiency.
- Built CLI tools and automation scripts using **Click** and **Python**, increasing developer productivity.
- Designed comprehensive test cases using **Pytest**, improving code coverage by 40% and ensuring greater product reliability.
- Designed Custom Resource Definitions (**CRDs**) and controllers with **Golang** and **Operator SDK**, gaining hands-on experience with **Kubernetes, Docker, Kubebuilder,** and **Helm**.
- Worked across multiple cloud platforms: AWS, Azure, GCP, Oracle, Openshift and DO, Mostly **AWS**.
- Solely designed the backend **API for AWS Marketplace** integration, expanding the product's reach by over 10%, gaining expertise in AWS services like **IAM, SNS, SQS, Cloudwatch, S3, Lambda, ECS, Load Balancers, DynamoDB, and AWS SDK (Boto3)**.

SDE Intern	Calsoft Pvt. Ltd., Pune	Nov 2020 - June 2021

- Implemented internal ERP portal service "osmose" using **Flask**, **React.js**, and other **JavaScript** frameworks.
- Conducted unit tests with **Pytest** and **Selenium**, enhancing functionality for end-users.
- Deployed and maintained **OpenShift** (OCP) clusters on **vSphere**, enabling efficient orchestration of containerized applications
- Collaborated on a LinkedIn scraper using **Python and Selenium** for HR and Marketing lead generation.

Freelancer Projects/ Open Source Contributions/ Personal Projects

- Created a [Python wrapper](#) for automation of algo trading using **Fyers API** for a client (Freelance).
- Reported a [bug](#) in [Velero](#), an open-source project with millions of global users. The bug was impeding users from employing multiple label selectors in hooks for specific scenarios.
- Developed a simple [blockchain](#) in **Go** as a personal project, showcasing expertise in distributed ledger concepts, consensus mechanisms, and cryptographic techniques.

EDUCATION
- **B. TECH. (ML and AI Specialization)** in 2021 from Medi-Caps University, Indore. ([8.8 CGPA](#))

ACHIEVEMENTS
- **Winner of Innovation day 2024-** [Datamind](#), **AI** which can help organizations to reduce their storage cost.
- **Star performer 2023 -** Handled multiple clients in Storage Domain efficiently.

Hobbies and Interests
- **Chess**
- **Anime/Manga**