

SUDIPTO GHOSH

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Work Experience

Associate Software Engineer

07/2022 to 11/2024

Veritas Technologies LLC, Pune, India

- Orchestrated migration of **5 micro services** from a monolithic server to a cloud-native (**kubernetes**) deployment using **Golang**-based **Kubernetes Operators**, enhancing system resiliency and simplifying upgrades.
- Reduced** monthly **TCO** of **CloudScale** deployment by **7%**; routing all ingress traffic through a single LoadBalancer.
- Delivered continuous mainline health updates, expanded the Python based TestEngine framework, and developed a test suite for testing backups and restores of the Nutanix Prism Central workload.

Associate Developer

01/2022 to 06/2022

IBM India, Noida

- Collaborated with the UX team to customise **OpenUI** for **IOCL's Siebel CRM**, enabling cell number based sign-ins for the Document Correction Service, shipping **4** wireframes to production.
- Improved workflow efficiency by increasing **conversion rate** to **35%**

DAAD-WISE Research Fellow

05/2021 to 09/2021

Universität Bremen, Germany

- Conducted research on constructing Bounding Volume Hierarchies (**BVH**) for 3D objects using Clustering techniques, contributing to the CollDet collision detection library.
- Applied clustering algorithms such as K-Means, Mean Shift, Hierarchical Clustering, Spectral Clustering, and heuristics, to optimise cluster centroids and improve upon the Batch Neural Gas algorithm.

Skills

- C++**, **Golang**, **Python**, **SQL**, **Git**, **LINUX** commands & utilities for development, **Bash**
- Test Automation: Python based **Robot** framework, **KIND** (K8s in Docker)
- Docker**, **Kubernetes**, **k8s operators** for CRDs, infra & deployment management on **Azure (AKS)** & **Elastic Kubernetes Services (AWS)**
- REST APIs** (URL formation, payload, debugging)
- Operating Systems, Networking

Education

Indian Institute of Engineering Science & Technology, Shibpur, 2018 - 2022

B.Tech(Hons) in Computer Science and Technology

CGPA : 9.69/10

Research Publications

Link Prediction for Social Networks using Representation Learning and Heuristic-based Features. S Khanna, S Bhattacharyya, **S Ghosh***, K Agarwal, AK Das. *9th International Workshop on Mining Actionable Insights from Social Networks, MaISoN 2023.*