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Balaji Sigamani
Software Development
Engineer (Infrastructure)

balajisa.tech
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SKILLS

Programming	Golang, Python	**Tools**	Docker, Kubernetes, Terraform, Prometheus
Operating System	Linux, Windows	**CI/CD**	Gitlab CI, Jenkins, ArgoCD
Cloud	Amazon Web Services	**Misc**	Networking, Security

EXPERIENCE

Software Development Engineer 1   Jun 2022 – Present
Ola cabs   *Bangalore, India*
- Developing an internal developer portal to migrate mesos workloads to kubernetes seamlessly.
- Implemented installation of CNI plugin for network security within the kubernetes cluster and performance tested it by generating 2 million rpm.
- Setup Rancher, a multi cluster orchestrator tool to manage multiple clusters from a single controlplane, making deployments and configuration to multiple clusters easy.
- Instrumented applications for enhancing monitoring and observability by writing prometheus exporters.
- Being on-call for troubleshooting production issues.

Associate Site Reliability Engineer   Jul 2021 – May 2022
Trimble Inc   *Chennai, India*
- Developed a state machine to automate software patches for more than 100 nodes in AWS, which drastically reduced the manual hours.
- Created infrastructure for applications with disaster recovery in place via infrastructure as code.
- Implemented security testing along with ui automation with zed attack proxy to report app vulnerabilities.
- Incident management for business critical systems. Written blameless post-mortem reports on incidents.

Graduate Technical Intern   Jan 2021 – Jun
2021   *Chennai, India*
Trimble Inc
- Wrote a single E2E test framework for web,Android and IOS Applications.
- Facilitated reduction in infrastructure cost by eliminating and optimizing workloads in AWS.

OPEN SOURCE CONTRIBUTIONS
- argo cd   - https://github.com/argoproj/argo-cd/pull/11096
- aws-vpc-cni - https://github.com/aws/amazon-vpc-cni-k8s/pull/2192

PUBLICATIONS
- IEEE publication - Web Application Firewall Evasion Techniques - https://ieeexplore.ieee.org/document/9074217
- Scopus publication - Sniffing HTTPS traffic in LAN with ARP Poisoning - https://acadpubl.eu/hub/2018-119-12/articles/7/1671.pdf

PROJECTS
- OSINT – Developed a web app under Ministry of police in Smart India Hackathon 2020 based on open source intelligence to get detailed insight about a suspect.
- Data Authenticity App - developed with QLDB Ledger database to ensure the integrity of data when passed from one app to another.

LICENSES AND CERTIFICATIONS
- AWS Certified Sysops Administrator Associate.
- Gremlin Chaos Engineering Professional.

EDUCATION

Sri Krishna College of Engineering and Technology   2017 – 2021
Bachelors of Technology, Information Technology   *Coimbatore, India*