S Raghav Pillai

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Objective

Platform/Infrastructure Engineer with 5+ years of experience building **internal frameworks, developer tooling, CI/CD systems, and scalable infrastructure**. Passionate about **reducing DevOps toil, improving reliability, and designing abstractions** that empower developers to move fast without breaking systems.

Education

Qualification	Institution	Year	Score
Bachelor of Technology *Computer Science and Engineering*	SRM Institute of Science And Technology, Chennai	2016–2020	CGPA: 8.13
Class XII *Central Board of Secondary Education*	St. Mary's Senior Secondary School, Delhi	2016	87.6%

Achievements

- **Common Vulnerabilities and Exposures**
  CVE ID 2019-13143, 1st July 2019
  View at: cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2019-13143

Experience

Moveworks India (Bangalore)
Senior Software Engineer 1, *March 2023 – Present,*

- Implemented RBAC on OpenSearch based on fields of an index, enabling stakeholders to view documents that they are authorised to.
- Setup an automatic infra health check system in place to automatically detect what infrastructure a service connects to (Postgresql, redis, kafka etc) and run sanity tests with the config passed to the service.
- Managed Istio and logging infrastructure.
- Set up an ArgoWorkflow framework which enabled devs to write, test and deploy workflows in python without any devops intervention. This framework also minimised human errors and enforced conventions. This reduced DevOps overhead and was widely adopted to run multi env workflows.
- Setup Bazel in the k8s-manifests repository which enabled me to set up pre merge checks such as pre merge diffs. This reduced outages due to manual errors considerably.

Software Engineer 1, *April 2022 – March 2023,*

- Responsible for managing cloud infrastructure, building CI-CD pipelines and tooling.
- Migrated services from a monolithic deploy pipeline to service-specific deploy pipelines, effectively bringing a service's deployment time from well over 2 hours to less than 10 mins.
- Set up infra in the EU region to meet GDPR guidelines.

Citrix R&D India (Bangalore)
Platform Engineer 2, *Nov 2021 – April 2022*

- Responsible for building and maintaining Internal services on Azure.
- Wrote automation to publish a list IP ranges to whitelist for customers using our product.

Zolostays (Bangalore)
Platform Engineer 2, *July 2020 – Oct 2021,*

- Developed internal services (ZOps), this service, helped developers manage configs and service deployments.
- Managed infrastructure, VPN, Users access, and Microservices,
- **Started** zolo's **bug bounty program**,
- Took measures to **secure** the **infrastructure**,
- Performed **cost optimisation** exercises and saved over **$2000 per month**,

Intern, *Jan 2020 – June 2020*

- Zolostays is an Indian startup which offers Co-living services in various cities. Here I spent my time building, deploying and managing the infrastructure of multiple microservices.

Technical Skills

- Kubernetes *Advanced,* Docker *Intermediate*, Linux *Intermediate,* Jenkins *Intermediate*
- GoLang *Familiar,* Python *Advanced,*
- AWS (*EC2, EKS, S3, Lambda, WAF, GuardDuty, Config, Cloudwatch etc)*
- Terraform *Intermediate,* Bazel *Intermediate*
- ProtoBuffers *Intermediate,* GRPC *Intermediate,*
- PostgresSQL *Intermediate,* MongoDB *Familiar,* ElasticSearch *Intermediate,* Kafka *Intermediate,*

Projects

- **ArgoWorkflow Framework**
  An abstraction layer on top of python hera framework for argo workflows that allow developers to write cross environment workflows without any DevOps involvement.
- **Manifest generation framework**
  A Bazel rule backed by a python framework that takes params like resource requirements as inputs and generates the necessary k8s manifests to deploy a microservice in AWS EKS.
- **zOps**
  A project to create and manage Configmaps and secrets for various applications through a web console. Integrated with the proprietary access control system (Bifrost) of Zolostays.
- **Ragnarok (Cluster Shutdown)**
  A serverless project to turn off/scale down all staging clusters during nights and weekends which can also be turned on at the push of a button during the shutdown hours.
- **PinNinja**
  github.com/securelayer7/PinNinja
  An Arduino script to identify UART pins.
- **Rubber Ducky Using an Arduino Leonardo Pro Micro**
  github.com/vologue/Rubber-ducky-using-arduino-leonardo-pro-micro
  An Arduino script that provides the attacker with a shell from the victim's machine.

Activities & Involvements

- Presenter at PyCon India 2019.