

ANURAG TANGRI

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TECHNICAL SKILLS

- **Programming Languages** - Python, Go, C++, SQL.
- **Tools** - Docker, Kubernetes, Kafka, Prometheus, Grafana, Helm, Linux.
- **Cloud** - CloudWatch, EC2, Lambda, CI/CD, EKS, Jenkins.
- **Databases** - MySQL, MongoDB, Redis.

EXPERIENCE

JUNIPER NETWORKS

Jan 2023-Present

Software Engineer 3 | Sunnyvale, California

Technologies - Python, Go, C++, K8s, Docker, Bazel, gRPC, Sockets.

- Led the design and development of a python microservice responsible for deployment of contrail networking solution in single/multi-cluster kubernetes distributions effectively handling ~10,000s of requests per day.
- Developed REST APIs in Go responsible for automating all day 1/2 operations, including application installation, scaling, deployment and software upgrades.
- Implemented Pre/Post-flight checks as K8's operators for deployments on single/multi-cluster setups improving cluster health and reliability.
- Developed a multithreaded Python service handling ~65k packets per second exporting telemetry data to our customers, adapting to increased load during runtime while keeping CPU utilization in check.
- Automated over 100 feature tests using Robot Framework, utilizing Toby scripts to streamline testing.

SPLUNK

Software Engineer Intern | Raleigh, North Carolina

May 2022 - Aug 2022

Technologies - Python, Docker, Kubernetes, Prometheus, AWS.

- Developed a microservice responsible for sending application metrics to Prometheus for raising alerts via slack whenever a scheduled build did not trigger within a specific schedule, increasing operational efficiency by 90%.
- Worked with versioned base image and created a dashboard that showed latest base images being used by every team at Splunk, improving visibility and increasing efficiency across 5+ team workflows.

KREDITBEE

Software Engineer | Bangalore, India

Nov 2020 - Aug 2021

Technologies - Golang, MySQL, AWS.

- Designed and developed REST APIs for a WhatsApp microservice in Golang running on AWS lambda instance, sending ~ 1 million loan reminder messages to customers per day.
- Programmed a bulk upload functionality for sending messages to 1 million users concurrently, enabling collection agents to upload a CSV file with customer information, which in turn triggers the microservice to send reminder messages to customers.
- Added a scheduled message functionality which led to a 20% increase in loan repayments, letting agents schedule reminder messages for a particular time of the day.
- Developed a notification functionality to notify the agents whenever a customer replies, leading to more than 90% increase in response time.

ORACLE

Software Engineer | Gurugram, India

Jul 2019 - Oct 2020

Technologies - Python, Docker, Kubernetes, OCI.

- Developed a Python based k8s deployment responsible for deployment of 5G LTE nodes as microservices on cloud.
- Maintained microservices in Kubernetes cluster on Oracle Cloud in both production and development environments and used Elasticsearch to trigger and monitor health checks, leading to service being available 99.99% of the time.

EDUCATION

Master of Science : Computer Science

- University of North Carolina, Charlotte, United States

Bachelor of Engineering: Computer Science

- Thapar University, Patiala, India

PROJECTS

- **Reddit Media** - Python, Flask, Redis, MySQL, MongoDB, OAuth.

Designed a Reddit like web-app that allows users to create profile, add, delete, edit and search posts. Integrated Redis caching and OAuth authentication for enhanced performance and security.

- **Library Management System** - Golang, MySQL, Go-orm, JWT.

Created a Library Management System using Golang with MySQL Database. Used Go-orm library in Golang for allowing CRUD operations for users. Secured all API's with JSON Web Tokens to protect sensitive data.

ACCOMPLISHMENTS

- Qualified for **ACM-ICPC** Chennai regionals in 2018. Won many intra-university programming competitions.