

Kishore Ramamurthy

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SUMMARY:

Competent and passionate Software Engineer with experience building REST APIs and Highly Available, Scalable, Fault Tolerant, Cost-efficient Infrastructures to host these APIs. I have worked in an agile environment and believe in continuous learning. Being detail oriented and an active listener, I consider every module diligently for functionality and optimization.

PROFESSIONAL EXPERIENCE:

CCC Information Services | Platform Architect II

October 2017 - Present

Packaging Deep Learning Models:

- Created a REST Interface to the back-end service that accepts location of packaged inference code, model files and adds wrapper code to expose model predictions via API calls.
- Created Docker Images for cpu/gpu containing the models files, inference code and other dependencies.

Impact: The service helped ML/DS teams to quickly build images and upload the images to the container registries abstracting the knowledge of docker images, server dependencies, logging and versioning.

Cluster Creation And Application Deployment as a Service:

- Created a REST Interface to the back-end service that interfaces with AWS via kops to create a kubernetes cluster, validate the cluster and deploy applications asynchronously.

Impact: The service provides an interface for teams to create kubernetes clusters and deploy applications by abstracting all the interfacing required with the cloud provider/container orchestration platform.

Load Testing as a Service:

- Created a REST Interface to the back-end service that accepts a test plan (number of users, duration of tests, endpoint, payload) and creates a Kubernetes Job based on the parameters provided.
- Persisted result of the load test and the results can be queried by an API call.

Impact: The service was used by multiple teams as part of the CI/CD flow, thereby slowness in applications was identified before moving to higher environments.

Elasticsearch Report Generator:

- Added logs lines to services which were fed into the Elastic Search.
- Queried Elasticsearch via REST calls, indexed and grep'ed/filtered specific log lines, and generated daily reports.

Impact: The Product and Billing team were provided with customized reports which helped in making business decisions.

California State University San Marcos | Web Developer

October 2015 - May 2017

Cascade Server (Content Management System):

- Worked on transitioning the Proficiency Services website to Cascade CMS to support functionalities such as registration and reports for department events. Integrated Wufoo API, fixed broken links, proofing of webpage contents, mapped and moved pages to new /readiness domain.

TECHNICAL SKILLS:

Computer Languages: Java, Python

Databases: Oracle SQL, MYSQL, Elasticsearch

REST API Development: Dropwizard, Flask, Jersey

API Testing Tools: JMeter, Postman

Container Technologies: Docker, Kubernetes, Istio

Amazon Web Services: Elastic Cloud Compute, Simple Storage Service, DynamoDB, Elastic Container Registry, Virtual Private Cloud, CloudWatch

Other Skills: Linux, Bash Scripts, ssh, scp, cURL, cron, git, maven, kops, kubect1, Junit, Yaml, Swagger Documentation, Apigee, Okta, Prometheus, Grafana, Kibana, Jenkins, Jetty

EDUCATION:

Master of Science - Computer Science

California State University – San Marcos, California

August 2015 - August 2017

Bachelor of Engineering - Computer Science

Anna University – Chennai, India

May 2010 - May 2014