Srividhya Chandrasekharan (Sri)

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Software Engineer with 6 years of experience specializing in back-end design and development, as well as platform engineering using Python, Kubernetes, and Java. Based in Austin, Texas and open to relocation.

SKILLS

Programming: Python, Java
Container technologies: Docker, Kubernetes, Helm, Istio, YAML, RedHat OpenShift
Cloud technologies: AWS (Route53, Elastic Load Balancer, Lambda and CloudWatch)
Other skills: RESTful APIs, databases, Bash and Git

WORK EXPERIENCE

Software Engineer 3, Nokia, Austin, Texas   06/2022 - 08/2024

- Implemented a solution that identified REST API objects for canary routing and tagged egress requests, ensuring precise delivery to canary pod instances. This enhancement improved canary testing capabilities for 29 clients, contributing to greater product reliability and stability.
- Built RESTful APIs that enabled customers to create personalized service care portals, enhancing service management and driving business growth.
- Designed and implemented a monitoring and load balancing solution using AWS CloudWatch and Route 53, delivering customers a single highly available FQDN to streamline IT provisioning and eliminate the need for manual site availability tracking.
- Configured Single Sign-On (SSO) for GUIs and then engineered a comprehensive migration strategy to transition live systems from local authentication to SAML SSO, including a robust rollback plan. Successfully executed across multisite deployments with georeplicated databases on Kubernetes for two clients, ensuring minimal disruption.

Software Engineer 2, Nokia, Austin, Texas   10/2021 - 07/2022

- Re-designed the authentication software architecture to use a geo-redundant database within Kubernetes, enhancing data availability and security.
- Identified key metrics of SaaS deployments and created a new Grafana summary dashboard to help with real time monitoring and data driven decision making.
- Implemented Role-Based Access Control measures for a Kubernetes operator to manage application components adhering to the principle of least privilege to improve security.

Software Engineer 1, Nokia, Austin, Texas   08/2018 - 10/2021

- Enhanced database installation for traditional and containerized environments to enable seamless third-party integrations without modifying schema. This solution facilitated rapid future integrations with minimal effort.
- Led the upgrade of a testing framework for the entire product, improving development efficiency, while mentoring an intern throughout the process.
- Designed and developed Helm charts to automate the creation and management of Custom Resource Definitions (CRDs) on Kubernetes, enabling faster, scalable deployments and eliminating manual intervention.
- Boosted Java code coverage by 20% through rigorous unit testing with JUnit and JMockit, alongside integration tests and Behavior Driven Design tests utilizing Cucumber and Selenium frameworks.

CERTIFICATIONS

Certified Kubernetes Application Developer
Certified Kubernetes Administrator

EDUCATION

The Ohio State University, Columbus, Ohio   Aug. 2016 – May 2018
Master of Science in Computer Science and Engineering   *GPA : 3.7/4.0*

Anna University, Chennai, India   Jun. 2012 – May 2016
Bachelor of Engineering in Computer Science and Engineering   *GPA : 8.6/10.0 (Top 10%)*