Kaveri Subramaniam

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SUMMARY

Computer Science Graduate student with 2+ years of Software Engineering experience specializing in Cloud Computing seeking full-time opportunities starting May 2023.

EDUCATION

MASTER OF SCIENCE, COMPUTER SCIENCE (Engineering Fellowship Award)   Expected May 2023
Arizona State University, Tempe AZ   GPA: 3.93/4.0
Relevant Coursework: Distributed Database Systems, Cloud Computing, Database Management Systems Implementation, Advanced Computer Network Security, Info Assurance and Security, Data Mining, Data Visualization.

BACHELOR OF TECHNOLOGY, COMPUTER SCIENCE   May 2019
PES University, India; Specialization in Systems and Core Computing   GPA: 8.9/10.0

PROFESSIONAL EXPERIENCE

ARIZONA STATE UNIVERSITY, TEMPE, AZ: ETS LINUX SUPPORT   Feb 2022 – Jun 2022
- Configured and deployed Duo Security Auth across all campus servers in AWX using Ansible Templates and Vault providing secure remote access for 150k+ students, faculty, and staff.
- Provisioned 3+ Unix packages and drivers using Ansible increasing campus resources for compute-intensive coursework.

ORACLE, BANGALORE: SOFTWARE DEVELOPER II   Jul 2019 – Jul 2021
- Designed the Tombstone feature from design to production by recommending pair-programming for MySQL Database Services in Java and Python to automate the migration of 160k+ inactive records reducing the instance records bucket by 75% initially and 5% every cycle thereafter.
- Spearheaded the integration of 2 resources of MDS with Resource Query Services and Public Logging which involved Shepherd, Terraform, and Grafana enabling the streaming of customer logs from MDS' data plane to the web interface.
- Guided the Backup and Analytics teams in the integration of their MDS resources to the Tombstone feature, RQS, and PL through demos and task boards; reduced the time taken by 90%; appreciated by manager and teams for all-round efforts.

MIQ DIGITAL, BANGALORE: DEVOPS INTERN   Jan 2019 – Jun 2019
- Migrated Nexus from AWS EC2 to AWS EKS using the then-recent feature, StatefulSets, in Kubernetes and configured Helm, Prometheus, and Grafana increasing the scalability of Nexus servers in line with MiQ's growing services.
- Designed a pipeline to deliver the DevOps best practices Report to Gmail and Confluence from Sheets using Apps Script as the backend reducing the time spent from 2 days to 5 minutes and doubling report frequency to twice a month.

TECHNICAL SKILLS

Technologies: API Design, Distributed Systems, Cloud Computing, System Design, Operating Systems, Database Systems, Agile, Computer Networks, Virtual Machines, Automation, Object Oriented Programming, Configuration Management.
Tools: AWS, OCI, OpenStack, Terraform, Kubernetes, Ansible, Grafana, Docker, Helm, Postman.
Languages: Java, Python, C, Unix (Linux), Git, C++, JavaScript, HTML, CSS, React (ongoing).

ACADEMIC PROJECTS

IMAGE RECOGNITION SERVICE ON HYBRID CLOUD   Fall 2022
- Deployed an image recognition application using Nova, Horizon, Neutron, and Glance on OpenStack as the UI and SQS, S3, Lambda, and EC2 on AWS for the backend to demonstrate Cloud-native applications.
- Automated infrastructure management using Boto3 in Python for increased readability and faster testing and demo to under 20 minutes.

RESOURCE DESCRIPTION FRAMEWORK USING RDBMS   Spring 2022
- Integrated Heapfiles with 5 index and 5 sorting options to store and retrieve Quadruple records pointing to Label records, into Minibase, to understand the effect of data size, index choice, and sorting style on the speed of the query.

ACTIVITIES

WOMEN WHO CODE, CLOUD: MEMBER   Oct 2022
- Exchanged professional experiences and identified core technologies within career paths like frontend, backend and cloud.
- Drafted articles for the Women Who Code blog for getting started with tools like git, setting up workspace environments for large-scale projects, etc.