DATA SCIENCE, MACHINE LEARNING, CLOUD COMPUTING & FULL STACK SOFTWARE DEVELOPMENT

SHRINIDHI KOTA SHREESHAPURANIK

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I am a dynamic professional with strong analytical and programming skills. I have in-depth knowledge of programming languages and development tools along with hands-on experience in building, deploying, monitoring application on cloud. I automate tasks and workflow to improve the efficiency of process leading to faster and reliable applications and am looking for a new opportunity to be part of an innovative team of problem-solvers.

EDUCATION

Master of Science in Artificial Intelligence

San Jose State University

Aug 2021 - May 2023

B.E. | Computer Science and Eng.

Visvesvaraya Technological University

Aug 2010 - Jul 2014

SKILLS

Programming: Python, Java, C, R, bash, JavaScript

Python Libraries: Pandas, NumPy, scikit-learn, Matplotlib, xgboost, NLTK

Database: MongoDB, Redis, Postgres, MySQL, Snowflake, Neo4J

Cloud Computing: AWS, Microsoft Azure, Oracle Cloud Platform

Tools: Flask, Docker, Kubernetes, Terraform, Prometheus, Grafana, Django, OpenShift, OpenStack, Git, Jenkins, SonarQube, Azure DevOps, Gitlab, JIRA

Configuration Management Tools: Ansible, Chef, Puppet

Machine Learning: Regression, Classification, Clustering, Deep Learning, Association Analysis

Statistics: Probability Distribution, Bayesian statistics, Sampling, Hypothesis testing, ANOVA

CERTIFICATIONS

Microsoft Azure Solutions Architect Expert

Microsoft Azure DevOps Engineer Expert

Microsoft Azure Administrator Expert

Microsoft Azure AI Fundamentals

RedHat Certified Specialist in   Container Management

RedHat certified Specialist in Ansible Automation

Site Reliability Engineering (SRE-F)

PROFESSIONAL EXPERIENCE

DevOps Consultant

Infosys | Bengaluru, India

May 2019 - Jul 2021

- Spearheaded development of a secure cloud platform on top of public cloud and migrated legacy applications to cloud resulting in 30% revenue increase and 20% decrease in application downtime
- Envisioned and accomplished continuous deployment on Snowflake DB leveraging sqitch for automating change management process on Snowflake DB and was published in Snowflake Data Marketplace under 'most innovative ideas'
- Built predictive Machine learning models to predict possibility of application failures and provide root cause analysis of errors in the applications – increasing the robustness of the environment by 43%
- Designed and implemented lifecycle of application services from inception to conception, including system design, build, deployment, and management of COTS (Commercially off the Shelf) applications and microservices applications
- Collaborated with a team of 2 to refine hot caching in SFDC and Vlocity for improved query performance

Senior Software Engineer

Oracle | Bengaluru, India

Aug 2018 - May 2019

- Designed and programmed a micro service in Python for Key Management Service (KMS) on Oracle cloud to create master encryption keys and data decryption keys
- Devised automation scripts in Python to build and deploy KMS without any downtime on Oracle Cloud leveraging rollout deployment strategy to ensure high availability of services
- Implemented Python automation to provision Hardware Security Modules (HSM) and Vaults for storing master encryption keys for encrypting data
- Delivered monitoring website in AngularJS and Python for management to access various projects metrics, reports, and statuses

Software Engineer

Accenture | Bengaluru, India

Sep 2014 - Aug 2018

- Architected and engineered robust, portable, and secure containerized DevOps platform on Kubernetes along with intelligent chatbot assistance for operational tasks
- Developed automation scripts for creating large scale infrastructure on public cloud from code using Terraform and Ansible
- Collected applications logs to generate dashboards for visualization of application health and performance
- Achieved end to end automation using UNIX shell scripting and Python programming and reduced software development cycle time

ACADEMIC PROJECTS

- Constructed a custom grid world to simulate a taxi agent to pick up and drop passengers at right location using model free algorithms – Q Learning and SARSA - [Github]
- Developed a Regression model to predict fare of different ridesharing apps and determine what factors influence demand with R squared value of 0.95 - [Github]