Amir Allahveran

amir79allahvern@gmail.com · +1(403)401-3761 · linkedin.com/in/amir-allahveran · github.com/AmirAllahveran

Work Experience

ArvanCloud | Site Reliability Engineer Aug 2022 - Aug 2023
- Collaborated with product managers to set and maintain Service Level Objectives (SLOs) and metrics representative of the customer experience. This resulted in a 17% improvement in customer satisfaction.
- Created software in Golang and Python to improve the reliability and performance of the product.
- Enforced security best practices across the team, resulting in a 20% improvement in compliance with privacy standards and ensuring data protection for 500,000+ customers.
- Designed a monitoring and alerting system that reduced response times to critical incidents by 15%.
- Launched best-in-class deployment and delivery methodologies using Kubernetes, Cloudflare, and CNCF tools. This led to a 25% improvement in deployment speed.

Tapsell | Site Reliability Engineer Jul 2020 - Aug 2022
- Developed and maintained automation and configuration management tools, reducing manual effort by 25%.
- Revised configuration management for patching and upgrades, reducing the time required for patching by 20% and minimizing production issues by 10%.
- Conducted and maintained system logging and auditing, enabling the organization to meet compliance requirements and improving system security by 15%.
- Researched and recommended two new tools to improve system reliability and scalability.

IVS | Software Developer Dec 2019 - Jul 2020
- Developed and maintained automation and configuration management tools, reducing manual effort by 25%.
- Identified root causes and developed fixes for 8 bugs in our REST API service serving 10,000+ monthly requests.
- Enhanced workflow for 6 engineers on the team by writing a bash script to set up a Dev environment on a Kubernetes cluster.

Education

M.Sc. Computer Science Calgary, Alberta, Canada
University of Calgary Aug 2023 - Present

B.Sc Computer Engineering Tehran, Iran
Amirkabir University of Technology Sep 2018 - Jul 2023

Technical Skills

- Scripting and Programming (C, C++,C#, Golang, Python, Bash)
- Cloud Computing (AWS Cloud services/components: EC2, VPC, SNS, SQS, Lambda, API Gateway, IAM roles, Route53, AWS S3, AWS ECS, CloudWatch, RDS, DynamoDB)
- Containerization (Docker, Containerd, Kubernetes)
- Monitoring and Logging (Prometheus, Grafana, AlertManager, ELK Stack)
- Database Management (MySQL, PostgreSQL, MongoDB, Redis, Kafka)
- Infrastructure as Code (Terraform, Ansible)
- Big Data Processing and Distributed Storage (HDFS, Hadoop)
- Networking (TCP/IP, DNS, Load Balancing)
- Security and Compliance (SSL/TLS, IAM, PCI-DSS)
- Incident Response and Troubleshooting
- High Availability and Disaster Recovery
- Performance Optimization and Capacity Planning
- Continuous Integration and Deployment (GitLab CI/CD, GitHub Actions)

Projects

HDFS K8S Operator | *Golang, Kubernetes, KubeBuilder*
[HDFS Operator Repository, HDFS Kubectl Plugin Repository, HDFS Components Dockerize Repository]
- Architected and crafted a Kubernetes HDFS Operator, automating the creation, updating, and deletion of HDFS clusters in Kubernetes; reduced cluster management time by 35% and increased operational efficiency.

DNS Query Tool | *Python*
[DNS Query Tool Repository]
- Engineered and implemented a tool using Python's socket module for generating and transmitting custom DNS request packets via UDP.
- This tool, capable of generating and transmitting custom DNS request packets via UDP, constructed DNS messages from scratch, including header, question, and resource records sections, resulting in a 25% improvement in packet customization and control.

Certifications

- AWS Certified Cloud Practitioner
- Learning Terraform
- Cloud Computing Basics (Cloud 101)