LI ZHANG

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OBJECTIVE

Passionate and motivated software engineer transitioning to Cloud Engineering with hands-on project experience and a deep commitment to mastering cloud technologies.

SKILLS

- **Tech Stack:** Azure, AWS, Terraform (IAC), GitHub Action (CI/CD), Kubernetes, Linux, Docker.
- **Programming Language**: Python, Bash Scripting, C#, JavaScript, Typescript, Angular, SQL.

CERTIFICATES

AZ305 - Azure Solutions Architect Expert	HashiCorp Certified: Terraform Associate (003)
AZ104 - Azure Administrator Associate	CKA - Certified Kubernetes Administrator
AWS Solution Architect – Associate	Microsoft GitHub Actions Certificate (CICD)

PERSONAL PROJECTS

Responsive Personal Portfolio Website (AWS S3, CloudFront, Route53, CI/CD, HTML5, CSS3, JavaScript)
- Set up web hosting infrastructure using AWS S3, CloudFront, and Route 53 for scalable delivery.
- Configured CloudFront with AWS Certificate Manager (ACM) for SSL and optimized cache invalidations.
- Managed DNS record sets in Amazon Route 53 for efficient domain routing and availability.
- Automated code deployment with a CI/CD pipeline and integrated OIDC-based GitHub authentication for secure AWS access.

AWS Terraform Infrastructure Modernization (EC2, VPC, ALB, Route53, ACM)
- Implemented end-to-end infrastructure automation using Terraform, deploying a dynamic website on AWS EC2 instances within private subnets for enhanced security and maintainability.
- Architected a highly available infrastructure with custom VPC spanning multiple availability zones, configuring security groups and network ACLs to enforce strict access controls.
- Established robust load balancing using ALB with auto-scaling groups (ASG), enabling automated scaling to maintain optimal performance while efficiently managing resource utilization.

E-Commerce App Modernization with AWS and Docker (Amazon ECR, and Amazon ECS, Route53, ACM)
- Built and packaged a car-rental web application using Docker.
- Used Amazon ECR (Elastic Container Registry) as a secure storage system for Docker images.
- Set up automatic scaling on Amazon ECS (Elastic Container Service) to handle varying user traffic.
- Designed and maintained task definitions and service configurations in ECS.

WORK EXPERIENCE

Optum / UnitedHealth Group   01/2023 – Present
Associate Software Engineer (Azure, AWS, Terraform, Kubernetes)
- Migrated chat agent applet from on-premises Kubernetes instance to Azure Kubernetes Service.
- Participated in building UHC claim denial chatbot using AWS Lex and Lambda services
- Troubleshoot bot response delay issues using AWS CloudWatch and APM Elastic.

EDUCATION

South Dakota State University, Brookings, SD   01/2020 - 05/2022
M.S. in Computer Science
- **GPA**: 4.0/4.0