LI ZHANG

954-235-4560 || zhangli0623janet@gmail.com || Cary, NC

Website: dailycloudproject.com | GitHub: github.com/li-zhang1 | LinkedIn: linkedin.com/in/li-zhang-happycoder

WORK EXPERIENCE

Optum / UnitedHealth Group

01/2023 - Present

Associate Software Engineer (Azure, AWS, Terraform, Kubernetes, ASP.NET API, Angular, C#, JavaScript)

- Migrated chat agent applet from on-premises Kubernetes instance to Azure Kubernetes Service.
- Built an AWS Lex chatbot integrated with AWS Lambda, using CloudWatch to monitor and resolve latency issues.
- Configured Azure Front Door and Traffic Manager to improve global load balancing, and application availability.
- Automated infrastructure provisioning across AWS and Azure using Terraform, ensuring consistency and reducing manual intervention.
- Implemented both front-end and back-end features for Optum Insurance claim overpayment management system using Angular and ASP.NET API.

SKILLS

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

CERTIFICATES

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

PERSONAL PROJECTS

AWS Infrastructure Modernization (Terraform, VPC, ALB, EC2, Route 53, ACM)

- Automated the deployment of a dynamic web application using Terraform, provisioning AWS resources including EC2 instances, VPCs, subnets, and security groups.
- Used Ansible to automate and manage the configuration of the application servers.
- Designed a highly available architecture across multiple availability zones with an Application Load Balancer (ALB) and Auto Scaling Groups (ASG).
- Configured Route 53 and AWS Certificate Manager (ACM) for secure and efficient domain management.

E-Commerce Application Modernization (AWS, Docker, ECS, EKS, CI/CD)

- Containerized a web application using Docker and hosted images in Amazon Elastic Container Registry (ECR).
- Deployed services on AWS ECS using Fargate, ensuring seamless auto-scaling and fault tolerance.
- Implemented CI/CD pipelines using GitHub Actions to automate build, test, and deployment processes.

Serverless Contact Form (AWS Lambda, API Gateway, DynamoDB, SNS)

- Built a serverless contact form to process user messages using AWS Lambda, API Gateway, and DynamoDB.
- Configured SNS notifications to trigger real-time email alerts upon form submissions.
- Ensured high availability and security through IAM roles and API Gateway authentication mechanisms.

S3 Auto-Organizer: Date-Based File Management System (Python, Lambda)

- Automatically sorts uploaded files into date-based folders within Amazon S3 buckets.
- Leverages AWS Lambda to trigger organization functions when new objects are uploaded.
- Implemented in Python for reliable serverless execution with minimal configuration.

EDUCATION

South Dakota State University, Brookings, SD

M.S. in Computer Science

GPA: 4.0/4.0

01/2020 - 05/2022