VISHAL DAMODHARAN

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EDUCATION

Northeastern University, Boston, MA   **May 2021**
Master of Science in Computer Systems Engineering, Internet of Things Specialization   **GPA: 3.54/4**

SRM Institute of Science and Technology, Chennai, India   **May 2018**
Bachelor of Technology, Electronics and Communication Engineering   **GPA: 8.3/10**

TECHNICAL SKILLS

Programming/Scripting Languages:	Python, Bash, Golang, JavaScript, Java
Protocols:	MQTT, CoAP, HTTPS, HTTP, TCP/IP
Database:	MySQL, PostgreSQL, Oracle, MongoDB
Source Control and Automation Tools:	GitHub, CircleCI, Terraform, Atlassian, Kafka, Jenkins
Container Orchestration:	Kubernetes, Helm, Docker, Kubernetes Operations (kops), AWS ECS

WORK EXPERIENCE

CD Data, Wyoming
Devops Engineer   **Jun 2022 - present**
- Migrated systems, services like **Jenkins** deployment pipeline server, main application server and all other supporting services from **AWS** to **GCP**
- Upgraded the infrastructure to run in any cloud architecture and not only AWS by moving the infra code to **Terraform** from **CloudFormation**
- Proposed a plan to help reduce company's cloud expenses and executed it by simplifying the system and by performing migration of the architecture

Esper.io Inc, Bellevue, WA
Devops Engineer   **Jul 2021 - Jun 2022**
- Created a internal data pipeline for aggregation of all the device metrics in a centralized **Redshift** and visualized it in **Quicksight**
- Collaborated with a team of cloud Engineers to design a simulation of a device in **Golang** and managed the automation and deployment of the fleet of devices to communicate and send messages with the dashboard
- Worked on the architecture and infra for deployment of an over-the-air update system for the company managed OS in **GCP**
- Created a streaming service to stream files and app from **S3** with static IP address using **Global Accelerator**, **ALB** and **EC2**
- Organized my work using **JIRA**, held daily meeting to communicate progress with manager and feedback using slack and zoom

Open Water Accelerator, Menlo Park, CA
Software Engineer Intern   **Sep 2020 - Dec 2020**
- Created a Python/Flask based web application for data processing, MySQL for the database, R for data visualization to extract/scrap some data for graphical financial representation
- Devised infrastructure using **CloudFormation** in AWS to create a EC2 server to run applications and maintain them
- Organized work using **JIRA**, held daily meeting to communicate progress with manager and feedback using discord and zoom

PROJECTS

Microservices over Kubernetes   **Sept 2020**
- Automated Infrastructure using Terraform to setup and destroy A) Jenkins Server (CICD pipeline to build, push linux images to ECR) B) Kubernetes Cluster using kops
- Orchestrated highly available and reliable applications using helm charts including Kafka, Metrics Stack - Prometheus, Grafana and Logging Stack - ELK (ElasticSearch, Logstash, Kibana)

AWS Deployment Architecture   **Feb 2020**
- Developed a 3 tier Auto-scalable web application running on **AWS EC**2 implementing IaaS, PaaS and SaaS services
- Implemented **load balancer** to distribute traffic from user request to various servers, **auto scaling group** to increase the scalability of the application and **security groups** to manage the network traffic.
- Automated app with **CI / CD** using **GitHub**, **CircleCI** and **Amazon CodeDeploy** to update code without interruption,

CERTIFICATIONS

Certified Kubernetes Application Developer   **Jun 2023 - Jun 2026**