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Description automatically generated](https://www.credly.com/badges/957373a7-8a5a-446b-9bfc-253a454b3c9a/public_url)KARTHIK CHUNCHU**  
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Cloud & DevOps Engineer with six years of experience in designing, implementing, and optimizing cloud solutions on Google Cloud Platform (GCP) and AWS. Expertise in GCP services, cloud automation, cloud security, CI/CD pipelines, and cloud migrations. Proficient in Infrastructure as Code (Terraform, Google Cloud Deployment Manager), containerization (Docker, Kubernetes, GKE), and serverless computing (Cloud Functions, Cloud Run). Strong ability to lead cloud transformations, ensure compliance (SOC, HIPAA, CMMC), and implement high availability strategies in GCP environments. Proven track record of optimizing cloud costs, improving operational efficiency, and ensuring secure, scalable cloud infrastructure.

**Work Experience**

**Senior Cloud Engineer**  
Harman Square | Feb 2024 – Present

* Manage and support **multi-tenant Google Cloud environments**, ensuring **high availability and optimal performance**.
* Troubleshoot and optimize **GCP services** including Compute Engine, Kubernetes (GKE), Cloud Storage, and IAM.
* Implement **Infrastructure as Code (IaC)** using **Terraform** to automate cloud infrastructure deployments.
* Maintain and improve **CI/CD pipelines** for automated deployments, reducing deployment time by **30%**.
* Ensure **security best practices** for IAM, firewall rules, and networking within **Google Cloud VPCs**.
* Provide **Level III technical support**, resolving escalated incidents and improving system uptime.
* Collaborate with DevOps and architecture teams to execute **cloud migrations and performance tuning**.
* Conducted **performance tuning** for databases (MySQL, PostgreSQL), reducing query response time by **25%**.
* Provided mentorship and technical guidance to junior engineers on cloud best practices.
* Collaborated with cross-functional teams to execute **cloud migration projects** and hybrid cloud setups.

**Cloud Engineer**  
DXC Technologies | Dec 2018 – Jun 2022

* Managed multi-tenant Google Cloud environments, ensuring seamless performance and availability of critical services like Compute Engine, GKE, Cloud Run, and Cloud Storage for enterprise clients.
* Collaborated with cross-functional teams to migrate applications from on-premises to GCP, leveraging services like Compute Engine, Cloud SQL, and Cloud Storage, ensuring a smooth transition and improved scalability.
* Designed and implemented AWS cloud architectures, optimizing compute, storage, and networking.
* Developed automation scripts in Python and Bash to improve infrastructure provisioning and monitoring.
* Managed Kubernetes clusters for containerized applications, ensuring 99.9% uptime.
* Monitored and troubleshot application performance using Google Cloud Operations Suite (Stackdriver).
* Mentored junior engineers on cloud best practices and DevOps methodologies.
* Optimized Kubernetes cluster performance with Cluster Autoscaler, CNI plugins and Service Mesh.
* Integrated Ansible with CI/CD pipelines using Jenkins and AWS CodePipeline to automate infrastructure deployments, application updates, and rollback strategies, enhancing system reliability and scalability.
* Developed comprehensive documentation for cloud infrastructure, improving operational efficiency and supportability.

**Associate Software Engineer**  
DXC Technologies | Jun 2017 – Dec 2018

* Provided Level II/III support for hybrid cloud environments across AWS and GCP.
* Automated cloud operations and configuration management using Terraform and Ansible.
* Optimized network security configurations, ensuring compliance with cloud security best practices.
* Assisted in onboarding new customers and configuring cloud environments.
* Developed Python scripts for Google Cloud and AWS Cloud Billing and Cost Management to analyze cloud spending, leading to a 20% reduction in overall cloud costs by optimizing resource allocation.
* Assisted in migrating on-premises applications to AWS, optimizing workloads with EC2, RDS, and S3, improving scalability and reducing costs by 30%.
* Worked closely with senior engineers to optimize AWS cloud architecture, ensuring scalability, security, and high availability.

**Technical Skills**

* **Cloud Platforms**: **Google Cloud (GCP)**: Compute Engine, GKE (Kubernetes), Cloud Run, Cloud Storage, IAM, VPC, Load Balancers, Stackdriver (Operations Suite), Cloud Pub/Sub, Cloud SQL. **Amazon Web Services (AWS)**: EC2, S3, IAM, RDS, Route 53, CloudFormation, VPC, Elastic Load Balancer (ELB), Auto Scaling
* **Infrastructure as Code (IaC):** Terraform, AWS CloudFormation, AWS CDK, Python (Boto3) Automation, AWS Config & AWS Security Hub, Ansible, JSON, YAML
* **Disaster Recovery & High Availability:** Multi-Region Deployments, Route 53 Failover, RDS Multi-AZ, Auto Scaling, AWS Backup, Google Cloud Build
* **Migration:** AWS Database Migration Service (DMS), AWS Schema Conversion Tool (SCT), On-Prem to AWS Migration
* **CI/CD Tools:** AWS CodePipeline, AWS CodeBuild, AWS CodeDeploy, Jenkins, GitLab CI, GitHub Actions, Google Cloud Build
* **Databases & Data Management:** AWS RDS, DynamoDB, Amazon EFS, AWS Glue, Python (ETL processes)
* **Containerization & Orchestration:** Docker (ECS, Fargate, ECR), Kubernetes(EKS)
* **Cloud Security:** IAM, VPC, Firewall Rules, VPN, Load Balancers, Hybrid Cloud Architectures, Google Identity-Aware Proxy (IAP), AWS Security Hub
* **Monitoring & Logging:** AWS CloudWatch, AWS CloudTrail, Datadog, Google Cloud Operations Suite (Stackdriver)
* **Networking:** Load Balancers, Route 53, VPC Peering, AWS Transit Gateway, GCP Load Balancers, GCP VPC Peering
* **Hybrid & Multi-Cloud Architectures:** AWS Direct Connect, VPN, and hybrid cloud solutions
* **Automation & Orchestration:** AWS Lambda, AWS Step Functions, EventBridge, AWS Lambda, AWS Step Functions, EventBridge, GCP Cloud Functions, GCP Cloud Pub/Sub, GCP Cloud Composer
* **Programming Languages:** C, C++, Python, SQL, Java
* **Scripting Languages and Web:** HTML, CSS, Java Script, Bash
* **Frameworks:** Django, Flask, FastAPI, Spring Boot
* **Communication Protocols & Core Skills:** CAN, TCP, IP, HTTP, FTP, UDP, Microcontrollers such as Raspberry Pi, NodeMCU and Arduino IDE
* **Tools & Operating Systems:** Wniscp, ServiceNow, MATLAB, Eclipse, Linux,

Windows

**Education**  
**Master of Science:** University of Wisconsin – Milwaukee | Sep 2022 – Dec 2023  
Information Technology Management

**Academic Projects**

**Deep Learning for Image Classification in Python with CNN Capstone Project:**

In this project Deep learning techniques are used for the medical image classification. Image Classification done using Python- Learn to build a CNN model for detection of pneumonia in x-rays from scratch using Keras withTensorflow as backend. Technologies used are Convolution Neural Network, Transfer learning.

**Smart Surveillance Camera using Raspberry Pi:**

The Raspberry Pi, PIR sensor, and Raspberry Pi Camera were used to create a smart surveillance system. When someone enters within its detection range, the PIR sensor detects motion. When the PIR Sensor notices movement, the Pi-Camera turns on and takes a picture and stores it in a cloud. The stored picture is then compared with a predefined set of faces using a grid algorithm. Technologies used are Think Speak Cloud, Raspberry Pi 4 model B.

**IoT based Patient Monitoring System:**

It's a helpful health monitoring system for elderly people and ICU patients to check their condition on a regular basis using the appropriate sensors, and the data gathered is kept on Think Speak cloud. NodeMCU ESP8266, Think Speak cloud, C++, and Arduino IDE are the technologies utilized.

**Deploying a Real-Time website into Cloud (AWS Services):**

Designed and deployed a responsive, cloud-native Attendance Management website on AWS, utilizing infrastructure-as-code (IaC) for automated resource provisioning. Utilized EC2, S3, RDS, and VPC for scalable compute, storage, and secure networking. Integrated with a custom domain via Route 53, securing with SSL/TLS encryption. Enhanced reliability with load balancing, auto-scaling, and security groups for optimal performance.

**Certifications**

* AWS Certified Cloud Practitioner, Oct 2024 – Oct 2027
* AWS Certified Solutions Architect Associate, Jan 2025 – Jan 2028
* Certified in Machine Learning A-Z (Udemy), Mar 2020
* Certified in Object-Oriented Programming in Java (Coursera), Jul 2020