

(100% Remote Contract Architect Roles Only – Attention – 100% Remote Contract Architect Roles Only)

Tomas Wallick

Cloud Native Infrastructure Technical Architect, Container Orchestration (Kubernetes) Architect

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Certified Azure Solutions Architect, Certified GCP Solutions Architect

Certified Kubernetes Administrator (CKA), Certified Kubernetes Security Specialist (CKS)

Hashicorp Infrastructure Automation Certification (Terraform, Terraform Cloud),

Hashicorp Security Automation Certification (Vault)

Sr. (Kubernetes (K8s), Knative/Kubeless/Kubeflow Serverless ML K8s, Mesos DC/OS, Terraform) Multi-Cloud Microservices/Serverless Microservices (Azure, GCP) Technical Architect/Multi-Cloud (Azure, GCP, Packer, Terraform) Infrastructure Architect/Consulting Technical Director

Sr. (Azure, GCP, Packer, Terraform, ArgoCD, FluxCD, Google Tekton CI/CD, K8s Helm, K8s Kustomize) Cloud GitOps/ML GitOps/Container Orchestration ML Ops/GitOps (K8s, K8s Knative, K8s Kubeless, K8s Kubeflow ML) Infrastructure Technical Architect

Professional Skills/Expertise

K8s-Native/Serverless K8s-Native and Cloud-Native Microservices Software Design and Architecture

SSL/TLS Microservices using Google gRPC/gRPC Web, WebAssembly, REST, REST/Protobuf, GraphQL, GraphQL/Protobuf and (C, C++, Go, Rust, TypeScript/Node.js) on K8s (AKS, GKE) and Cloud (Azure ECS Container Instances, GCP Cloud Run)

SSL/TLS Streaming Microservices using Google gRPC/gRPC-Web, WebAssembly, GraphQL, GraphQL/Protobuf (C, C#, F#, C++, Go, Rust, TypeScript/Node.js) on K8s (AKS, GKE) and Cloud (Azure ACI, GCP Cloud Run)

GitOps Container-Native/K8s-Native (Multi-Cluster Single-/Multi-Tenant) CI/CD Pipeline Design and Architecture

! (GitLab, Github, Bitbucket) Argo Events/Argo Workflow CI, Google Tekton (K8s Knative Serverless FaaS) CI (including Anchore, Aquasec or TwistLock Container Image CI Scanning), ArgoCD K8s and Flagger (Automated Progressive Delivery) Native CI/CD Automation Architectures on Azure AKS K8s, GCP GKE K8s, GCP GKE On-Prem K8s, Rancher K8s on Azure VMs, Rancher K8s on GCP VMs using Packer, Terraform, Terraform Helm Provider and/or Terraform Kustomize Provider and Service Mesh*

! (GitLab, Github, Bitbucket) Argo Events/Argo Workflow CI, Google Tekton (K8s Knative Serverless FaaS) CI (including Anchore, Aquasec or TwistLock Container Image CI Scanning), FluxCD and Flagger (Automated Progressive Delivery) K8s Native CI/CD Automation Architectures on Azure AKS K8s, GCP GKE K8s, GCP GKE On-Prem K8s, Rancher K8s on Azure VMs, Rancher K8s on GCP VMs using Packer, Terraform, Terraform Helm Provider and/or Terraform Kustomize Provider and Service Mesh*

GitOps Multi-Cloud (Azure/GCP) Automated DRaaS (Disaster Recovery-As-A-Service) Infrastructure Architecture

! Architect/Design/Deploy Multi-Cloud (Azure, Azure Stack) GitOps Automated DRaaS Infrastructure using Prometheus/Prometheus Alert Manager, Packer, Terraform, Terraform-Consul Discovery and Azure Blob Storage

- ! Architect/Design/Deploy Multi-Cloud ([GCP](#), [GCP Anthos](#)) GitOps Automated Infrastructure using [Prometheus/Prometheus Alert Manager](#), [Packer](#), [Terraform](#), [Terraform-Consul Discovery](#) and [GCP GCS](#)

GitOps CI Cloud ([Azure](#), [GCP](#)) Infrastructure ([Terraform](#), [K8s](#)) Client-Site Deployment Delivery Pipeline Architectures

- ! Architect/Develop and Deploy Client-Site Automated (Infrastructure) Deployment Rollout Toolkits for Azure Cloud Infrastructure ([Azure](#), [Azure AKS K8s Clusters](#), [Azure AKS K8s Clusters using Azure Container Instances Side-Car Clusters](#), [ORY Hydra/OKTA and OAuth 2 SSO](#)) using [Terraform](#), [Terraform Helm Providers](#), [Terraform Kustomize Providers](#) using [GitOps CI Runners](#) ([Drone CI](#), [GitLab CI](#), [Circle CI](#), [GitHub Actions](#), [Google Tekton CI/CD](#))
- ! Architect/Develop and Deploy Client-Site Automated (Infrastructure) Deployment Rollout Toolkits for GCP Cloud Infrastructure ([GCP](#), [GCP GKE/GCP GKE On-Prem K8s Clusters](#), [GCP GKE K8s Clusters using GCP Cloud Run Side-Car Clusters](#), [ORY Hydra/OKTA and OAuth 2 SSO](#)) using [Terraform](#), [Terraform Helm Providers](#), [Terraform Kustomize Providers](#) using [GitOps CI Runners](#) ([Drone CI](#), [GitLab CI](#), [Circle CI](#), [GitHub Actions](#), [Google Tekton CI/CD](#), [Prow CI/CD](#))

GitOps ([LXC/LXD](#), [Docker](#), [CoreOS rkt](#), [CRI-O](#)) Container and Container Orchestration ([K8s](#)) Security Architecture

- ! Architect/Develop/Deploy Secure Multi-Check-Point Container Image ([LXC/LXD](#), [Docker](#), [CoreOS rkt](#) and [CRI-O](#)) Scanning Push/Pull Pipelines using CI Process using [Anchore](#), [Aquasec](#) or [Twistlock](#)
- ! Architect/Develop/Deploy K8s Admission Controller Cluster Policies using K8s OPA or K8s-Native Kyverno

Container Orchestration ([K8s](#)) and Cloud/Cloud Container Orchestration Authentication/Authorization Architecture

- ! K8s-Native SSO ([Single Sign-On](#)) using [ORY Hydra](#) or [OKTA OpenID Connect \(OIDC\)](#) and [OAuth 2](#), [Istio](#) or [Linkerd 2 Service Mesh](#) and [TLS/SSL Certificate Auto-Governance](#) using [LetsEncrypt](#) and K8s Cert-Manager on [Azure AKS](#) and [LetsEncrypt](#) and [Certbot](#) on [Azure Container Instances](#)
- ! K8s-Native SSO ([Single Sign-On](#)) using [ORY Hydra](#) or [OKTA OpenID Connect \(OIDC\)](#) and [OAuth 2](#), [Istio](#) or [Linkerd 2 Service Mesh](#) [TLS/SSL Certificate Auto-Governance](#) using [LetsEncrypt](#) and K8s Cert-Manager on [GCP GKE/GKE On-Prem](#) and [LetsEncrypt](#) and [Certbot](#) on [GCP Cloud Run](#)

Cloud/Hybrid Cloud ([Azure AKS K8s](#), [GKE K8s](#), [Serverless](#)) Deep Learning Data Processing Pipeline Architectures

- ! [Azure Data Factory](#), [Azure Service Fabric](#), [Google TensorFlow Microservice Pipelines](#)
- ! [Azure Data Factory](#), [Azure Logic Apps](#), [Google TensorFlow Microservice Pipelines](#)
- ! [Azure Data Factory](#), [Fission Serverless K8s Microservice/Service Mesh](#) ([Consul](#)) Pipelines
- ! [Azure Data Factory](#), [Knative Serverless K8s Microservice/Service Mesh](#) ([Consul](#)) Pipelines
- ! [Azure Event Hub](#), [Azure Logic Apps](#), [Google TensorFlow Microservice Pipelines](#)
- ! [Azure Event Hub](#), [Google gRPC](#) ([Azure AKS K8s](#)) [Microservice/Service](#) ([Consul](#)) [Mesh](#) Pipelines
- ! [GCP Cloud Run](#) ([Docker](#), [CoreOS rkt](#) Container), [Google TensorFlow Data Analytics Pipelines](#)
- ! [GCP PubSub](#), [Google gRPC](#) ([GKE K8s](#)), [Google TensorFlow Microservice/Service Mesh](#) ([Istio](#)) Pipelines
- ! [GCP PubSub](#), [Fission Serverless K8s](#), [Google TensorFlow Microservice/Service Mesh](#) ([Istio](#)) Pipelines
- ! [GCP PubSub](#), [Knative Serverless K8s](#), [Google TensorFlow Microservice/Service Mesh](#) ([Istio](#)) Pipelines
- ! [GCP Cloud Dataflow](#)/[Google TensorFlow/TensorFlow Serving](#) [Microservice Pipelines](#)
- ! [GCP Cloud Functions](#), [Google TensorFlow/TensorFlow Serving](#) [Microservice Pipelines](#)
- ! [GCP Cloud Composer](#) ([Apache Airflow](#)) and [Splunk Data Pipelines](#)

Deep Learning (K8s, Serverless K8s, Serverless Container Orchestration) Microservice Pipeline Architectures

- ! Google TensorFlow (C++, Go), Google TensorFlow Serving w/ Kubernetes (Docker, CoreOS rkt, CRI-O)
- ! Google TensorFlow (C++, Go, Rust) w/ Azure ACI, GCP Cloud Run, Nuclio K8s FaaS, Knative K8s FaaS
- ! OpenCV (C++, Python 3) w/ Knative K8s FaaS, TorchML (C++) w/ Knative K8s FaaS, TorchVision ML (C++)
- ! Keras (Python 3) Deep Learning (Deep Reinforcement Learning) Pipelines w/ Knative K8s FaaS and Argo Workflows

Professional Experience

VW/Audi Automotive (AI Connected-Car Division) – 100% Remote

(Part-Time) Contract Employee : 12-2020 - 6-2021,

Lead Multi-Cloud (Terraform, Azure/Azure AKS K8s/Azure Container Instances, GCP/GCP GKE K8s)

Technical Architect/Technical Director Consultant,

Description :

Served as **Lead Multi-Cloud** (Azure, GCP) **Technical Architect** and **Kubernetes Architect** in addition to serving as consulting (Multi-Lingual) **Technical Director** for division in Spain driving the technical vision of the division (through innovative production grade PoCs for production inclusion) and architecting and developing auto-scaling and DR (Disaster Recovery) **Azure** and **GCP** cloud-native infrastructure using Terraform and auto-scaling Kubernetes cluster architectures on **GCP GKE**, **GCP On-Prem** and **Azure AKS** and **Azure Container Instances (ACI)** as side-car clusters for **VW-Audi Connected Car Telemetry (V2N as P2P Vehicle-to-Network, V2I as P2P Vehicle-to-Infrastructure, V2V as P2P Vehicle-to-Vehicle, V2G as Vehicle-to-Grid) Tracking and Telemetry Telematics** (Go, Rust) microservices.

Architected and **developed** K8s Native CI/CD pipelines using Google Tekton CI (K8s Knative CI) for Terraform **Azure**, **GCP** infrastructure deployments, **Azure AKS**, **Azure ACI**, **GCP GKE** and **GCP GKE On-Prem K8s** cluster deployments.

Architected K8s native CD (using Progressive Delivery and Rolling Progressive Delivery deployments) across **Azure AKS**, **GKE** and **GKE On-Prem K8s** clusters using **ArgoCD** (ArgoCD App-of-Apps GitOps Pattern, ArgoCD Projects for Multi-Tenant **VW-Audi Connected Car Telemetry Tracking** and **Telematics** clusters and ArgoCD 2 ApplicationSets for templated multi-env non-production, staging and production clusters) and **FluxCD** and **Flagger** Progressive Delivery for Audi/VW Connected-Car **Tracking** and **Telematics** Storage Engine Platforms on **Azure**.

Architected and **developed** **Azure AKS** and **GKE** K8s cluster security policies using K8s Admission Controllers using K8s native **Kyverno**.

Product Stack : Go, Rust, REST/Protobuf

Product GitOps CI/CD Pipeline Stack : GitLab, GitLab CI, Argo CD, FluxCD, Anchore, DockerHub Container

Registry, Docker, Nvidia Docker, AWS ECS Fargate, AWS AKS, GKE, GKE On-Prem, Terraform, Helm, Kustomize, Istio Service Mesh

Chevron Gas and Energy (Chevron AI Energy Division) – 100% Remote

Contract Employee : 6-2018 - Present,

Lead Multi-Cloud (Terraform, Azure/Azure AKS K8s/Azure ACI, GCP/GCP GKE K8s/GCP CloudRun) **Technical Architect**

Description :

Contracted at Chevron as **Lead Multi-Cloud** (Azure, GCP) **Technical Architect** and **Lead Azure and GCP Multi-Cloud Container Orchestration Application Architect/Infrastructure Architect** and day-to-day **architected, designed, developed, deployed and administered** GitOps driven Terraform-Azure cloud infrastructure pipelines, **Terraform auto-provisioned Multi-Cloud (and On-Prem) Container-** (Docker, Nvidia GPU Docker, CoreOS rkt) orchestrated **K8s/Knative** (K8s FaaS) **Argo Workflows** (K8s native DAG processing event-workflow) **K8s clusters** and **K8s GPU clusters** using **Istio Service Mesh**, **Azure AKS**, **Azure AKS K8s** with **side-car** orchestration-less **container orchestration** clusters using **Azure ACI** and **GKE K8s**, **GKE K8s** with **side-car** orchestration-less **container orchestration** clusters using **GCP Cloud Run** for a vast range of Chevron and Chevron allied partner product lines in the EU and drive the direction in the (Container) **AI-as-a-Service** arena for Chevron Gas and Energy AI Division. **Served** Chevron as a technical advisor to direct, drive and guide the divisions to leverage the state-of-the-art technology in GitOps cloud-native infrastructure automation, cloud-native container orchestration and container orchestration GitOps using Kubernetes platforms (CI/CD, Istio/K8s microservices, Istio/K8s FaaS serverless microservices and K8s security) and technical conduit to Chevron executive division stakeholders.

Product Stack : C++ (C++14, C++17, C++20*), Go, Rust, Google gRPC/gRPC-Web, GraphQL/Protobuf, REST/Protobuf, WebAssembly

Product GitOps CI/CD Pipeline Stack : GitLab, GitLab CI, Argo Events, Argo Workflow, Argo CD, FluxCD, Anchore, Harbor Container Registry, Docker, Nvidia Docker, CoreOS rkt, Azure ACI, Azure AKS, GCP Cloud Run, GKE, GKE On-Prem, Packer, Terraform, Helm, Kustomize, Kpt, Istio

Ducati/Ducati (Corse) Motor Racing (MotoGP Ducati Machine Learning Data Division) - 100% Remote

Contract Employee : 1-2016 - 6-2018,

Lead (Packer, Terraform, Azure Service Fabric, Azure Container Instances, Azure AKS K8s) Azure Cloud (Time-Series Race Telemetry Data-as-a-Service) Technical Architect

Description :

Contracted at Ducati/Ducati Corse Motor Racing as **Lead Cloud (Azure) Technical Architect** and **Lead Azure Cloud (Terraform, Azure AKS K8s, Azure Container Instances, Azure Service Fabric, Azure cloud native) Container Orchestration Application Architect/Infrastructure Architect** and day-to-day **architected, designed, developed, deployed and administered** GitOps driven Terraform-Azure cloud infrastructure pipelines, **Terraform auto-provisioned Cloud (and On-Prem) Container-** (Docker, Nvidia GPU Docker, LXC/LXD) orchestrated **K8s/Knative (K8s FaaS) Argo Workflows (K8s native DAG processing event-workflow) K8s clusters and K8s GPU clusters using Istio Service Mesh, Azure AKS, Azure AKS with side-car orchestration-less container orchestration cluster using Azure Container Instances (ACI) and Rancher RKE (On-Prem) on VMWare VSphere K8s clusters and Rancher RKE K8s GPU clusters using Istio Service Mesh** for a vast range of Ducati/Ducati Corse Motor Racing and Ducati allied partner product lines in the EU and drive the technical direction in the **ML/MV (Machine Learning/Machine Vision)-as-a-Service** arena for Ducati/Ducati Corse Motor Racing AI Division.

Product Stack : C++ (C++14), C#, Go, Google gRPC, GraphQL/Protobuf, REST/Protobuf

Product GitOps CI/CD Pipeline Stack : GitLab, GitLab CI, Drone CI, Argo CD, Anchore, Docker, LXC/LXD, Azure ACI, Azure AKS, Knative, Packer, Terraform, Kustomize, Helm, Istio

Chevron Gas and Energy (Chevron AI Energy Division) – 100% Remote

Contract Employee : 1-2014 - 1-2016,

Lead (Packer, Terraform, GKE K8s, GCP Apache Mesos DC/OS) GCP Cloud (Microservices) Technical Architect,

Lead (Packer, Terraform, GKE K8s, GCP Apache Mesos DC/OS)

GCP GitOps Cloud Infrastructure/Container Orchestration Infrastructure Architect

Description :

Contracted at Chevron as **Lead Cloud (GCP) Technical Architect** and **Lead GCP Cloud GitOps Cloud Infrastructure/Container Orchestration Infrastructure Architect** and day-to-day **architected, designed, developed, deployed and administered** GitOps driven Terraform auto-provisioned Cloud Container (Docker, Nvidia GPU Docker, CoreOS rkt) orchestrated **GKE K8s and GCP (Apache) Mesos and Marathon DC/OS clusters and GKE GPU clusters** for a vast range of Chevron and Chevron allied partner product lines in the EU and drive the direction in the (Container) **AI-as-a-Service** arena for Chevron Gas and Energy AI Division.

Architected and developed (hands-on) regionally federated regional GKE and GCP/Mesos and Marathon clusters, architected and developed GKE cluster pre-provisioned cloud disk storage using K8s Storage Classes (GCP Persistent Disk, CephFS) and auto-lifecycle K8s disk storage orchestration using Flocker, architected and developed GKE K8s cluster and GCP/Mesos cluster secret credentials governance using SOPs (GitOps Secret Operations), GCP KMS Key Encryption/Decryption/Rotation Service, GCP IAM Identity Service and K8s and Mesos RBAC policies) and Hashicorp Vault using K8s Helm SOPs Plugins to automate auto-decryption of K8s Helm deployments to GKE clusters, developed SSL/TLS certificate secure private Docker/Nvidia GPU Docker/CoreOS rkt container image registries on GKE, architected and developed secure GKE and GCP/Mesos GitOps CI/CD pipelines using GitLab CI/CD on GKE K8s clusters as DaemonSet and on GCP/Mesos Marathon (CI for Terraform GCP cloud native infrastructure deployments, CI for container image security scans using Twistlock and container image deployments), architected and developed GKE K8s and GCP/Mesos centralized non-persistent and persistent cluster logging using Fluentd log filter, Fluentd log agent/log forwarder, Splunk data log persistence for log data analytics and Grafana logging dashes, architected and developed product scope GCP cloud service capacity planning, cloud service capacity governance, security planning, security governance, cost planning and cost governance specs, developed K8s cluster resource capacity planning and configuration provisioning using K8s VPA (Vertical Pod Autoscaler) and cAdvisor, developed road-course specs for all Chevron cloud PoPT products and Chevron cloud partnering SLA PoPT products, architected and designed all stages of the product pipeline to cost and capacity planned architecture specs, architected, designed and developed stakeholder-driven kick-off production-grade PoCs, architected and developed cross-functional product service/product integration API specs, service API packaging specs and container specs, architected and developed GKE and GCP/Mesos cluster capacity specs, administered GKE K8s and GCP/Mesos clusters (including cluster disaster recovery cron scheduling for K8s clusters using Velero and Restic, K8s Cluster Policy Admission Controllers using PodSecurityPolicies, K8s Network Policies, K8s RBAC Cluster Policies and K8s Cluster Intrusion Detection Audit Logging using Falco), developed 50% GitOps Pipeline CloudOps/ClusterOps IaC/CaC code (Packer configs, Dockerfile networking configs, Dockerfile security configs, Terraform auto-provisioned GCP network configs and GCP network security configs, GCP VPC network configs, GCP VPC network security configs, GCP/Mesos cluster configs, GKE (Helm, Helmfile) cluster configs and GKE K8s Security and Storage CRD Controller Extensions Kubebuilder K8s Operator Go API) and provisioned at-scale at-scale Multi-Staged Event-Driven Cloud Point-of-Purchase (Chevron Credit Charge Card) Transaction and Point-of-Purchase Transaction Decision Tracking for Points Rewards (Google gRPC and GraphQL) Microservices producing increased production revenue quarterly using Terraform provisioned GCP Cloud PubSub as Chevron Charge Card Event Transaction Ingest Gateway, Terraform provisioned GCP Cloud Dataflow and Google gRPC K8s/Google gRPC GCP/Mesos Chevron Charge Card Event Transaction Microservice (Docker, GKE, GCP/Mesos) Pipelines, Google gRPC K8s and GraphQL K8s Google TensorFlow/Google TensorFlow Serving Deep Learning Charge Card Points Rewards Data Analytics (Docker, GKE) Microservice Pipelines and Multi-Region GCP Cloud Spanner DB clusters and Multi-Region ScyllaDB (C++ Apache Cassandra) NoSQL clusters used as high-rate transaction exchange event storage.

Product Stack : C++ (C++11, C++14), Go, Rust, Google gRPC, GraphQL/Protobuf, REST/Protobuf

Product GitOps CI/CD Pipeline Stack : GitLab CI/CD, Docker, Nvidia Docker, CoreOS rkt, Twistlock, GKE, Packer, Terraform, Helm

Ducati/Ducati (Corse) Motor Racing (MotoGP Ducati Machine Learning Data Division) – 100% Remote

Contract Employee : 12-2012 - 1-2014,

Lead (LXC/LXD Containers, Docker, Azure Service Fabric, Azure Apache Mesos DC/OS) Azure Cloud (Time-Series Race Telemetry Data-as-a-Service) Technical Architect

Description :

Contracted at Ducati/Ducati Corse Motor Racing as **Lead Cloud (Azure) Technical Architect/Microservices Technical Architect** and day-to-day **architected, designed, developed, deployed** and **administered** GitOps driven cutting-edge **Azure Resource Manager auto-provisioned Container (LXC/LXD, Docker)** orchestrated **Azure (Apache) Mesos and Marathon DC/OS clusters** for a vast range of Ducati/Ducati Corse Motor Racing and Ducati allied partner product lines in the EU and drive the direction in the **Container-as-a-Service** and (Container) **AI-as-a-Service** arena for Ducati/Ducati Corse Motor Racing AI Division.

Architected and developed (hands-on) Azure Mesos and Marathon Azure VM clusters, federated regional Azure Mesos Azure VM clusters, architected and developed Azure Mesos cluster pre-provisioned cloud disk storage (Azure File Storage, NFS), architected and developed Azure Mesos cluster security using Azure Mesos Authentication TLS/SSL token certificates, Azure Key Vault Key Encryption/Decryption Service, Azure Active Directory Service for cluster authentication/authorization, architected and developed secure Azure Mesos cluster CI/CD pipelines using GitOps and CircleCI and Ansible Playbooks, architected and developed Azure Mesos centralized cluster logging using Collectd, Splunk and Splunk Dashes, architected and developed product scope Azure cloud service capacity planning, cloud service capacity governance, security planning, security governance, cost planning and cost governance specs, developed road-course specs for all Ducati/Ducati Corse cloud drive-train telemetry products and Ducati/Ducati Corse cloud partnering SLA drive-train telemetry products, architected and designed all stages of the product pipeline to cost and capacity planned architecture specs, architected, designed and developed stakeholder-driven kick-off production-grade PoCs, architected and developed cross-functional product service/product integration API specs, service API packaging specs and container specs, architected and developed Azure Mesos cluster capacity specs, administered Azure Mesos Marathon clusters (including cluster disaster recovery cron scheduling), developed 50% GitOps Pipeline CloudOps/ClusterOps IaC/CaC code (Packer configs, Dockerfile network configs, Dockerfile security configs, Azure Resource Manager auto-provisioned Azure network configs and Azure network security configs, Azure VPC/VNet networks configs, Azure VPC/VNet network security configs and Azure Mesos cluster configs cluster configs including Mesos Cluster Security and Storage Extensions using C++ and provisioned (on Azure Mesos) at-scale Multi-Staged Ducati Race Data (Time-Series Engine-, Drivetrain- and Drive Traction and Suspension ECU Sensor Status Streaming) Deep Learning Telemetry Pipeline Microservices using Azure Resource Manager provisioned Azure Event Hub as Ducati Vehicle ECU Sensor Status Event Ingest Gateway, Azure Resource Manager provisioned Azure Stream Analytics (Ducati ECU Sensor Status Event Data Analytics) Pipelines, Google TensorFlow and TensorFlow Serving/Google gRPC, REST and GraphQL (Docker and Azure Mesos) Deep Learning ECU Sensor Status Event Data Analytics Microservice Pipelines and Azure Resource Manager provisioned Multi-Region Azure CosmosDB clusters for TensorFlow transformed analytical data for Ducati stakeholders and integrated the Ducati Corse Deep Learning production into Ducati vehicles to increase safety and sales quarterly.

Product Stack : C++ (C++11), C#, Go, Google gRPC, GraphQL/Protobuf, REST/Protobuf

Product GitOps CI/CD Pipeline Stack : Github, CircleCI CI/CD, Packer, LXC/LXD, Docker, Azure Service Fabric, Azure Apache Mesos DC/OS, Azure RM

Chevron Gas and Energy – 100% Remote

Contract Employee : 12-2010 – 12-2012,

Sr. Azure (DDS, LXC/LXD Containers, Azure Apache Mesos DC/OS) Cloud Technical Architect

Description :

Architected and developed (hands-on) Chevron P2P Point-of-Purchase regional federated Azure (Apache) Mesos Azure VM clusters, architected and developed Azure Mesos cluster pre-provisioned cloud disk storage (Azure File Storage, NFS) disk storage, architected and developed Azure Mesos cluster security using Azure Mesos Authentication TLS/SSL token certificates, Azure Key Vault Key Encryption/Decryption/Rotation Service and Azure Active Directory Service for cluster authentication/authorization, architected and developed secure Azure Mesos cluster CI/CD pipelines using GitOps and GitLab CI/CD and Ansible Playbooks for CD to Azure Mesos Marathon clusters, architected and developed Azure Mesos centralized cluster logging using Collectd, Splunk and Splunk Dashes, architected and developed product scope Azure cloud service capacity planning, cloud service capacity governance, security planning, security governance, cost planning and cost governance specs, architected, designed and developed Chevron stakeholder-driven production-grade PoCs, architected and developed cross-functional product service/product integration API specs, service API packaging specs and container specs, architected and developed Azure Mesos cluster pre-provisioning capacity specs, administered Azure Mesos clusters (including cluster disaster recovery), developed 50% GitOps Pipeline CloudOps/ClusterOps IaC/CaC code (LXC/LXD networking configs, LXC/LXD security configs, Azure Resource Manager auto-provisioned Azure network config and Azure network security configs, Azure VPC/VNet network configs, Azure VPC/VNet network security configs, Azure Mesos cluster configs using Linux Shell scripts and SSH) and provisioned at-scale Fault-Tolerant Azure Apache Mesos clustered Chevron Charge Card Point-of-Purchase Transaction and Purchase and Points-Tracking/Points Rewards Transaction (Linux Sockets LXC/LXD Container) Servers using Azure PostgreSQL and Azure DocumentDB (CosmosDB) NoSQL storage clusters.

Contract Employee : 6-2002 – 12-2010, ** Azure used 2008

Azure Cloud Technical Architect, Sr. Linux (Linux Sockets, DDS, LXC/LXD Containers) Server-Side Software Systems Architect

Description :

**** Ask details ****

Product Stack : C (C99, C11), C++ (C++ (Pre- C++11, C++11), Go **, Azure Apache Mesos, Azure Resource Manager**

Product GitOps CI/CD Pipeline Stack : [GitLab](#), [GitLab CI/CD](#)

Development Languages Expertise

! [C \(C11\)](#), [C++ \(C++11, C++14, C++17, C++20*\)](#), [C# \(10 years\)](#), [F# \(4 years\)](#), [Go](#), [Rust](#),
[TypeScript \(Client-Side: React, Server-Side: Node.js, Deno.js\)](#), [Linux Shell](#)

[C: 10 yrs](#), [C++: 18 yrs](#), [C#: 10 yrs](#), [F#: 4 yrs](#), [Go: 10 yrs](#), [TypeScript: 6 yrs](#), [Rust: 6 yrs](#),
[Linux Shell Scripting: 18 yrs](#)

Education

Stuttgart University (Germany), Bachelor of Science Degree in Computer Science and Technology, **1996**

Stuttgart University (Germany), Master of Science Degree in Computer Science and Technology, **2000**

Stuttgart University (Germany), Bachelor of Science Degree in Technology Economics, **2002**