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**Pacific Coast Partners**

Cloud Strategy Review & Assessment: February 2022 to Current (Engagement)

* With VC round funding cutback strategies in place, perform assessments of key portfolio investments for minimum viable product next generation assurance
* Guide Cybersecurity posture improvements to include OWASP 100, CISA KEV Catalog, 100% static and “significant” dynamic code coverage. SRE SLO/SLI/Observability, etc.
* Strategies for incorporating FAAS/DBAS/SAAS to assure focused MVP pipelines: feature delivery, security in depth via DevSecOps, automated CI/CD with 100% code/vulnerability validation, Supply Chain BOM, Big Data alternatives (Presto vs. Snowflake), Linode Multicloud/Kubernetes, etc.

**Western Alliance Bank & AmeriHome Financial Services**

CMMI DevSecOps Self-Assessment: November 2021 thru February 2022 (Engagement)

* CIO Advisory – (AWS + Azure) - Perform CMMI self-assessment for DevSecOps CMMI level 3. Work with client to perform DevSecOps specific CMMI index assessments, develop remediation roadmaps, work with CTO’s to onboard applications. Work with biz owns, CTO’s, CSO’s to identify organizational changes, technology roadmap.
* CyberSecurity Assessment: (driven by SOX Remediation items) for DevSecOps security in depth (Continuous Integration code & vulnerability assurance) assess processes, tools, vulnerabilities detection (OWASP, SonarCube, NIST, CISA, Supply Chain assurance, etc.
* Technical Platforms: Microsoft Teams (pre Azure UI through Azure DevOps), Octopus Deploy (to hosted, Azure, AWS), SonarCube, SolarWinds, GitHub, GitLab.

**Microsoft Consulting: Azure Professional Services**

September 2019 to November 2021 (Engagement)

Title: Azure SRE Subject Matter Expert

*Key projects:*

Major Telecoms Company (Azure SRE Center of Excellence: Cybersecurity) CIO advisory

* Initially SME for Open Source on Azure: Digital transformation of 5500 applications (75,000 systems) to Azure. AKS (Kubernetes) Subject Matter Expert team, heavy focus on securing Kubernetes/containers. SME supporting the migration to AKS (GitHub Actions, Terraform + Helm via DevOps pipelines) of existing AI & “big data” components: Hadoop, HD Insights, Cassandra, Spark, Airflow, Snowflake, Packer/Docker, Azure API Management, AKS and Azure SAAS (Azure AI, ML, Functions, Container Svc., IoT, DataBricks), etc. Leverage Terraform and Istio, Azure APIM, Linode (multicloud Kubernetes and IAAS). Support Terraform based Azure Containers and Azure Kubernetes Service based on Microsoft + Hashicorp developed Terraform tooling for Azure DevOps CI, extending for deep security and controls (SELinux, ACL controls on load balancers, ingress & egress controllers, advanced configuration of nGinx, L7 proxies, etc.
* 5G: Architect and modify our Azure Terraform templates (GitHub Actions/Runners) to support Azure for Operators Cloud (IAAS, Kubernetes/AKS, Azure Container Services, Azure Modular Data Center (5G Edge), Azure API Management (AKS Services)).
* Moved to lead client transformation to SRE Center of Excellence, DevSecOps COE best practices (cloud workload & posture DevSecOps for Azure Kubernetes (SID), AKS workloads, Open Source, big data & IOT Cloud), CMMI, Azure for Operators (5G) acquisition.
* Azure DevOps end of life: Develop POC’s to move from Azure DevOps to GitHub Actions, assist teams to migrate 5 applications.
* AT&T Cybersecurity (USM Anywhere) deployments for SIEM, Passive IDE, Synopsys, WhiteSource. Thread model testing (DevSecOps/CI life cycle): SolarWinds, Splunk (SEIM), Microsoft Intune/Defender, CyberArk, Symantec (migration to CloudStrike)
* Terraform IAAS (+ PAAS + SAAS) Azure Containers and Azure Kubernetes Service based on elegant Microsoft + Hashicorp developed Terraform IAAS & Azure DevOps, Azure CI.
* Support InfoSec of data, programming, networking in Big Data, Kafka, Airflow, etc. to HDI (Hortonworks), ADL, Cosmos DB, Kafka, Snowflake, ACS, Web/Function apps, SecOps tools, monitoring (Grafana, Splunk, New Relic, etc.

*Banking Software Provider DevSecOps COE business change (Engagement Lead)*

* For an M&A firm with a mix of AWS, Azure, and Equinix (hybrid multicloud), develop and recommend security in depth and cybersecurity posture improvements. M&A FinTech acquisition vehicle with 15+ acquisitions to move to Azure: work with the CIO and subsidiary CTO’s to assess, recommend, roadmap, then assist in template build of digital transformation to Azure. Develop a roadmap for fact-based assessments of acquisition cybersecurity postures, mitigation paths, and risk analysis. Leverage terraform and Istio, Azure APIM, Linode (multicloud EKS and IAAS), DBAAS, PAAS to manage time to market.

**Servion IT – November 2019 – August 2020**

Title: SRE Transformation (Engagement)

*Servion Digital Transformations Practice: AI cloud DevOps*

*Servion Digital Transformations Practice: DevOps Reboot*

* Workforce engagement (pharma customer service) AI extensions: Cisco Call Center AI and existing Avaya Octane experience into Avaya AI: Avaya Oceana (ChatBots), Intelligent Outreach Management (was POM), IX Workforce Engagement (was WFO)
* Document analysis projects: Health Care POC: specialty text analysis for health care applications to improve UX; making health care (HIPA, medical records) actionables; pharma (LIMS trials documents) related documents into searchable feature (semantic content tagging) document data stores for context aware applied research Avaya Oceana ChatBots (IVR).

*Walmart ONLINE*

Title: Digital Transformation Lead

* DevOps/SRE: As part of the digital transformation & modernization engagement, develop SLO’s, SLI’s, improve visibility, Release Engineering maturity, etc: lead the Application Site Reliability Engineering team responsible for DC’s to Azure + GCP. DevOps lead implementing Chef, Docker, Kubernetes, Git. in a multi-cloud environment: moving web and app tiers to Kubernetes over Azure AKS + GCP K8S, work with management to identify smaller “pilot to production” ready projects: Web presence VM efficiency, improve Machine Learning application trust, deploy Simian Army (Chaos Monkey, Janitor), GCP Velostrata (Anthos Migrate), GKE Anthos, GKE, GKE Istio. Rebuild the SRE capabilities of client services after it’s destruction as a Bentonville driven cost savings measure: assess tech debt/mitigate, rebuild best practices, advise & consult to the Project Management Office around quality and processes in digital transformation. Improved UX of customers, helped turn Walmart Online into quantifiably (Splunk Enterprise & Security & Medusa reports to prove it) better UX, move Walmart Grocery to a (much) better UX. Lead the SRE efforts for Digital Transformation: data centers to Azure + Google’s GCP: Customer Web Site (4.5M transactions/minute, next generation private label, joint ventures & advertising AI, bring Walmart ShippingPass (Walmart Prime free shipping competitor) online with zero defects, enhanced placement Machine Learning, Walmart Grocery. Performance tuning and instrumentation (Java, GoLang, NodeJS). Added responsibility to assure the stable scale up of all to support Covid-19 accelerations. CI/CD, Kubernetes, Helm 2/3, Docker, Solr, Splunk Enterprise, Terraform, Splunk Security, Medusa, Kafka, Looker, Apache Tomcat, MemCached, Cassandra, Snowflake. SAP Supply Chain integration to Cassandra via Kafka. Added responsibility to assist the BlockChain team (supply chain IBM centralized Hyperledger) project.
* DevOps: VM to Kubernetes/Container replatforming: RHEL/CentOS Linux 8 from 6.3 (entire tech stack, including Apache Tomcat, Jboss, Splunk, Medusa Enterprise & alerting, Kubernetes, K8S CNI, secrets, Docker compose, containers, performance improvements, stability under extreme load, multi-Azure availability zone/regions, test hybrid AKS, GKS.). Work with dev team to rearchitect app into microservices, enhance service discovery, monitoring (K8S and java app), etc. Able to reduce costs by 15% at (10,000 pod) scale. DevSecOps enhancements for Kubernetes, Docker containers.
* SRE/PM: Pilot to Production model to improve slow AI/Data Science applications: work to accelerate AI projects to move to production in Azure, GCP. Leverage Azure Kubernetes, AKS Cloud Scheduler: resulting in higher quality suggestions, better ad insertion fees, 15% increase from partner ad revenue. H2O.ai (ML DevOps, Driverless AI), Looker. Azure ML, GCP BigTables, BigQuery, CloudSQL. ATP, Supply Chain. SAP integration (R/3, SCM, CM, BW).

**Avanade (Microsoft/ACCENTURE JOINT VENTURE)**

Title: Group Manager then Technical Practice Lead - June 2018 to October 2019 (Employee)

**Technical Practice Lead:** Open-Source Technology center of excellence: provide presales, SOW response, and post-sales architecture, debug, and implementation support for Avanade and Accenture engagements. Hadoop & Cassandra (Apache, Cloudera, Hortonworks), Airflow, GCP Anthos (multicloud Kubernetes), Linode (Kubernetes), Terraform, Flume, Kafka, some Spark.

**Technical Practice Lead:** Azure Transformations: SRE/DevOps lead across 12+ engagements (Azure, AWS, GCP), supporting the cloud transformation/modernization of Microsoft customers in their Agile/DevOps migrations to Azure. Work with various practices to move from large win to Pilot to Production type engagements of complex landscapes. Range of customer from medium enterprise through Fortune 100. From system/network/storage configurations to Terraform/Chef/Puppet, Simian Army (Monkey, Janitor), Docker (Azure Container Services), Terraform, Azure Kubernetes, Helm, GCP Kubernetes, AWS Kubernetes & Helm, and IoT/Data Lake, Azure Service & IoT Buss, etc.: Kubernetes (Cloud Manager, complex CNI, Anthos, Istio, beta of Velostrata/Anthos Migrate), Jenkins & GitLab CI/CD, Docker, microservices (Azure APIM), Big Data DevOps: UX quality and velocity. Developed the Azure practice via Pilot to Production engagements to such an extent that Accenture took it over, reducing Avanade to a captive staff augmentation role.

**Group Manager Liaison:** Accenture Digital Transformations Risk Management Office: participate in 4 turnarounds of problem digital transformations. Deep understanding of the risk taking approach used by the large consulting firms throughout the sales cycle.

Group Manager: Accenture SAP Technical Practice SAP DevOps Technical Lead: SAP on Azure, SAP on AWS, SAP on GCP. Pilot the SAP validation (AKS) of Web & App servers on Azure Kubernetes. Develop (Ansible, Terraform, Docker containers) automated Kubernetes scaling & deploy (non-production environments). Help develop the practice to include SAP DevOps and Basis Technologies offerings: Help clients improve web customer UX by increasing the too-slow SAP UX velocities. Built the relationship with Basis Technologies. Extensive Python, Terraform, Bash, PowerShell, some GoLang. Developed the Azure practice via Pilot to Production engagements to such an extent that Accenture took it over, reducing Avanade to a captive staff augmentation role.

***Practice Growth Activities:***

Technical lead of (15+) Pilot to Production engagements: AI Ops, SecOps, DevOps Velocity, Agile vs. Waterfall, AKS/Docker migration, SAP on Azure, Data Lakes/Edge Analytics/BI/AI assisted BI. Led to 5 ($15M) new engagements and an estimated $8M uplift to existing engagements

15+ Microsoft Professional services Pilot to Production engagements via Education Delivery: Azure for Agile DevOps, Azure CI/CD, Azure IoT

10+ Azure SAP HANA Migration Reviews & assessments to improve SAP DevOps. 15% increase in pipeline within 90 days of sales team training

Support several Azure OpenSource migrations (Postgres, hBase, Hortonworks Hadoop/Kafka/NiFi, Kerberos, Sentrify, etc.) leveraging CI/CD, Git, Jenkins, etc.

Accenture GCP practice: Support lift/shift & modernization: assist in leveraging Velostrata for live migrations, preview support of integrating Istio (Google Kubernetes/GKE, Anthos, GKE Onprem)

Identified an employee satisfaction improvement opportunity: shortfall in new-tech learning by existing staff when hiring outside for new talents (e.g. I was hired for my Big Data Ops SRE experience): Work with CFO, HR and key practice leads to start a 3% learning objective KPI that had the highest response from staff worldwide of any program ever.

Develop training and consulting material around CyberSecurity in depth for Docker and Kubernetes clusters and components.

***Client Engagements:***

Leading Retail Azure transformation Azure (Hadoop, Sentrify, MuleSoft/AnyPoint SalesForce and Data Lakes, HuDi, Kafka, NiFi, Ludvig, MLFlow), Splunk, Splunk Security, Medusa, improve DevOps quality & velocity

Oil and Gas Azure Big Data Lakes, Azure APIM. Improve reuse of API’s, reduce reliance on Mulesoft, possible reduction of net new cross silo code development by 25%.

Leading Cloud (MSFT/Accenture JV) provider (engagement workshops & classes) for DevOps at scale

Biopharma (US) Azure Big Data, Azure IoT, Big Data DevOps. Make LIMS, JV projects, R&D data fully searchable online (approx. 3PB of documents now searchable via semantic analysis), Security improvements (Splunk Attivo, CyberMDX

Pharma (UK) Azure Big Data, Centrify, Azure Data Lake. From paper and raw pdf to fully semantically indexed document search improvements across all JV’s. ~2.5PB

Leading hospitality: MuleSoft ERP/AnyPoint, SAP R/3 to AWS, Kafka (HDF & Confluent), Informatica, Cassandra, Hybrid DevOps, AKS (Kubernetes, Docker). Reduced AWS spend by 3% while increasing throughput by 15%

Health Care Azure DataLake, Azure BI, etc. for improved practitioner UX. MedTech and MD misclassification reduction by 75% resulting in substantial improvement in insurance provider payment turnaround

US Cellphone merger: Snowflake, Kafka, Azure, Looker, Azure IoT, Data Lakes, SAP, SAP DevOps, R/3 on Azure, Mulesoft ERP & Cloudhub.

**Independent Consulting engagements**

* ***Daimler Benz/Bosch ADAS: September 2017 – April 2018***

Global Data Architecture Thru SRE Project Lead: (US, Germany, France, UK, China): using Agile Pilot to Production project model, rebuild the DevOps team for greatly improved quality of velocity, decreasing ADAS drive serious events by 62% worldwide (5 driving centers): HPC, GPU farms, big data solutions: Hadoop, MapR, GlusterFS, ML (Spark), Python, GoLang, Ansible, Terraform. Hybrid (data center + cloud: Azure/AWS) infrastructures. Support engineering teams working in the US, Germany, France, & China. Slack, Confluence, Git, Jenkins,. CI/CD for ML, DataOps for curation and master data governance. Evangelize and lead classes in Agile DevOps for AI.

* ***Fortuna (US, Germany) – July – September 2017***

Engagement Lead/Architect: SOW Definition through POC. Reduced out of service impacts by 15%, increased operational uptime by 3%, and identified customer maintenance issues misclassified as warranty errors by 22% : AI Ops, AWS accounts, AWS (Terraform), Python, Git repo, Ansible, AIM integration, etc. Instantiate instances, install/configure Hortonworks HWD, HWF (NiFi), Redshift, Informatica, ESRI. Ignite, NiFI, Informatica. Wrike, ESRI , Pega, SAP FI/CO integration, Azure Logic Apps/Functions, Event Hub. Azure Data Lake. Azure HDInsights, Azure Machine Learning; AWS HWD/HWF, Spark/Ignite/R.

* ***Liebherr (Switzerland, Germany) – July – September 2017***

Architect: Azure Big Data/IoT predictive maintenance: Improved utilization by 8%, reduced customer maintenance costs by 3%, better classification of missed maintenance impacts affecting customer UX by perhaps 20%. (AI), Hadoop, Spark, Apache NiFi, AWS. Supply chain Block Chain (MultiChain). Azure Machine Learning, Azure Big Data, HortonWorks HWD, HWF, HW Storm. SDAF, MQTT, Kerberos, Satellite data (IoT) acquisition.

* ***Vodaphon cellular systems & services provider (Germany) – December 2016 – June 2017***

Engagement Lead/Architect: improve caller UX through improved cell QoS. In 4 months develop & deploy predictive analytics reducing maintenance cost by 2%, improving QoS by 12%, reducing outage/reroute by 8%: (AI),Azure IoT Big Data. Legacy Oracle EBS, Exadata, multiple Oracle RAC’s, Informatica. Hortonworks Hadoop (HDP), NiFi+Kafka (HDN), Storm, Python & Java performance & tuning, Apache Ignite (HDP), Spark Scala (cached RDD’s), ANN ML. Pure Lambda Architecture. Spark.

* ***RedCloud – April to June 2017***

Engagement Lead/Architect: IoT Sensor flows (MQTT, SDAF). Amazon Web Services/AWS. Lambda, Hortonworks HDP/HDF Kafka, Hadoop, NiFi, Spark, Spark Streaming. Show that the $6B planned upgrades by US Air Traffic Systems (100% custom software) could be done with ~$1.5B investment in Open Source and AWS SAAS. Helped drive increased adoption of AWS GovCloud, may have had direct impact on project Jedi value proposition.

* ***IBM Watson Earth – November 2016/March 2017***

Architect then application integration streams lead improving revenue stream by $15-25M worldwide. 30% reduction in latency of weather events to subscriber alerts (e.g. shipping, LTL, weather driven retail customer usage)

IBM Hadoop: Watson (Watson Earth), NOAA, SMA, UKMET, ECMWF, Cell towers, road monitors, etc. IOT, Machine Learning: Kafka, Cassandra, IBM Watson, BigInsights (Hadoop Spark SystemML) , IoT Sensor flows (MQTT, SDAF). Cassandra, Java, Python. Apple IoS, Samsung Android, US DOT, EU Traffic Safety Scheme, IBM SAP Transportation Module. AWS, S3, Chef, Docker, Cassandra (DataStax), Terraform. SAP HANA (FI/CO, BW; BODS, HANA Smart Data Access, HANA VORA (Spark SQL)), IBM Technologies (Watson (Hadoop), Guardium, BigInsights, DataEngine/Spark, etc.). MongoDB, ELB/ALB, ElasticSearch, Redshift, Jenkins. Agile, Jira, Confluence, Slack, Streaming, Java, Scala. DataDog, Graphana, Akamai. ELK for system logs and related.

* ***Pinterest – September Thru November 2016***

SRE resolving tech debt and other issues resulting in a $50-75M direct bottom line improvement. Also resolved Facebook Firehose issues for Facebook that may have led to greatly improved Russian disinformation, Social engineering, & credential stuffing: Hadoop, Dr. Elephant. MemCached, Puppet, memSQL, Redis, Terraform, Cloud Formation, AWS (Hadoop: multiple 2-3,000 nodes clusters, heavy S3, ELB, AMI, Route53), Airflow, extend Simian Army Janitor to various data flow tasks, MapReduce jobs, Hadoop (Java job optimization), Qubole, Kafka, Zookeeper, DataDog, Akamai.

* ***Experis Business Intelligence & Data Analytics Practice – July-September 2016***

Architect: Reduced dropout rates by 2-4% across the California Department of Education University System. Big Data Lake project. AWS ML. Cloud Formation, Redshift, NgInx, MuleSoft, JasperSoft, Pentaho, PostgreSQL, AWS S3n, EC2

* ***Uber – February 2016 to July 2016***

Lead/Architect:

HR machine learning solution, integrating 10 years worth of HR data, Workday, Google Docs/Calendar, Facebook data. Enable the then CEO’s unrelated company to provide predictive analytics data revenue ($0 to $12M in one year)

Financial big data analytics system for surge pricing analytics, driver lease revenue optimization, Uber Eats, Uber Package Delivery. Led to the decision to invest heavily in Uber Eats.

Agile, Cloudera Hadoop (CM, CDH), Apache Solr, Flume, Kafka, Logstash/ELK, Spark, Scala/Cascading, Impala, Neo4j, Platfora, HP Vertex, Java & Python performance tuning and optimizations. Hosted (NetApp, VMWare), bare metal, and AWS environments (EC2, S3, Cloud Formation), Tableau, Puppet. Production clusters ranging in size from 30-200 nodes (latter in HA, cross data center configuration) in China, US, UK, Germany, etc.

* ***EMC/Pivotal Professional Services – Site Reliability – 10/2015 – 2/2016***

Engagement Lead/Architect: Big Data consulting engagements providing architecture proof of concepts for ScaleIO, Cassandra, Hadoop/HBase/Sparc with Kubernetes/Docker to improve TCO.

EMC Sales Team: help develop DevOps Velocity/TCO improvement scope of work documents, project plans, resourcing. Then participate in the execution of the project(s) below.

EMC Strategic Partners Team: help develop position papers, collateral for project proposals. Review existing collateral and make adjustments for lessons learned (ScaleIO)

**Verizon/Vodaphon**

Develop alternative POC’s then recommend and migrate applications to IBM Watson cloud: analysis to identify business use cases for migrating 200 applications of 400+ nodes from (mostly) Amazon Web Services to. Pentaho, SAP R/3 BW, SAP HANA VORA, Python, Cassandra, Kafka, ELK, Pentaho, Tableau, Informatica. Tensorflow

**JPMChase**

Consolidate and analyze financial instruments data, support EMC ScaleIO infrastructure POC’s (Cassandra, Kafka/SmartStream). Support the client team in identifying key scenarios, architecting solutions to meet same. POC for BlockChain distributed Ledgers. Client is now in the news for their very successful counterparty UX with Hyperledger BlockChain ledgers

AWS S3, ELB, EC2, Route53/AIM, Cassandra, Hadoop (Pivotal Greenplumb, HortonWorks, Apache), Terraform, Cloud Formation, ScaleIO, Docker, Mesos/Mesosphere, Python, Kafka, MSAD/Sentrify, SmartStream, Spark, ScaleIO, Hyperledger

**Phoenix Consulting**

Title: DevOps Transformations: October 2013 – September 2015 (Employee)

For a consulting firm helping small and medium sized clients to move to Agile and DevOps for CI/CD, provide DevOps architecture and Pilot to Production support, growing Phoenix’s Digital Transformation DevOps practice: Agile coaching & and evangelist/doer, DevOps/Agile/CB/CI/CD for UX improvement and velocity. Work with clients to develop roadmaps, select and lead teams, teach clients, moving clients from waterfall to cloud based Agile continuous delivery, introduce & deploy engineering for testability and for monitoring processes. Focus on DevOps/Agile (Java, Python, Bash, Terraform) digital transformations. I consider this one of the more enjoyable parts of my career. (I left because our client base was becoming Texas oil patch: I was not willing to relocate to Houston and Phoenix engagements could not cover the travel overhead)

***Key engagements:***

Architecture Software (4000 subscriptions) (AWS)

Music Streaming Service (AWS)

Surveillance Video (AWS)

Mobile banking provider (65% of all banks worldwide) (AWS)

Petroleum Pipeline & Storage Services (AWS)

Petroleum Company: Seismic Imaging

Petroleum Services Company (AWS)

Google Satellite Imaging Acquisition (Google Maps/Kubernetes+Borg)

Google Mapping acquisition (Waymo/Kubernetes)

Video Enhanced Security (AWS)

**Ansys**

*Title: Senior Architect: Cloud Transformations. SAP Basis, Infrastructure – 2009 – 2013 (Employee)*

Develop “Pilot to Production” micro project model to rapidly grow the practice into new areas: SAP DevOps (BasisTechnologies partner), workshops, presentations: Given responsibility for 3rd party integration for SAP solutions (support presales, proposals, POC’s, and SAP BASIS delivery architect) for SAP Enterprise Portal (TopTier) engagements, and Salesforce (Force.com). Work with AWS and SAP to certify SAP for non-production systems (Hybrid Cloud), then work with AWS to market the solution as an exclusive AWS partner (with SAP AG). All engagements were P2P based growth. No big bang or major brown/green field projects!

***Key engagements:***

Aerospace (rotary wing) manufacturer – DevOps – AWS ($5M, $25M ROI first year)

Chemical Distributor (SAP DevOps AWS)

Computer equipment manufacturer

CPG conglomerate

Electric car manufacturer

Global Security Services Provider

Grocery Store Chain (Western US)

Major American car financing bank

Major computer storage & virtualization company

Major Medical equipment manufacturer

Major networking company: DevOps/Solution Architect (SAP AWS)

Major telecoms manufacturer

Major US Bank

Major Utility (UK, US, Canada - $140M) – DevOps – project turnaround ($60M)

Medical Electronics Manufacturer (Mexico, Brazil)

Multinational Beverage CPG

Multinational glass and ceramics manufacturer

Petroleum Field Services Provider (SAP DevOps AWS)

Pharma (SAP PDC/AWS)

Semiconductor equipment manufacturer

US computer equipment manufacturer

US Government Agency

World’s largest vehicle manufacturer

**Pro Bono and Community:**

**Association Building Community**

Title: Consulting CTO – June 2013 to August 2019 (to resume after pending Covid)

* For a nonprofit specializing in assisting nonprofit reorganization from founder controlled to independent board controlled, provide strategy and execution guidance, supporting funding programs with collateral, best practice strategies, and realizable cost savings focusing on Pilot to Production accelerators for quality & velocity improvements, Agile, DevOps, Security Postures (PII, PCI, some HIPAA) and CI/CD transitions. Microsoft nonprofit funding for Azure cloud (and some AWS to Azure) digital transformations using Digital Native best practices, support upgrades and stabilization of software (Drupal, Wordpress), Git & GitLab, enable cloud based CI/CD (Azure DevOps, Azure WebApps), and Agile best practices for small organizations.

San Francisco: Suicide Prevention

San Francisco: Homeless assistance

EU: Museum of Martial Arts

San Francisco: Indigents mobile showers

**California Institute of Technology**

Professor: School of Information Science – July 2021 to Current

* Lectures: Cybersecurity, DevSecOps Practices
* Seminars: Cloud Transformation Advisory Lectures, Security in Depth: DevSecOps, Getting to Site Reliability Engineering, Multicloud Strategies (VMware, Linode, etc.)
* Cybersecurity Supply Chain Lectures: Assess various Open-Source projects for code coverage, OWAS, CISA, etc. testing using AWS Code, Azure DevOps.

**EDUCATION:**

**Shaftesbury University: London, England**  
Bachelor of Science – Computer Science

**Certifications:**

Agile Certified Practitioner (DSDM)

Agile SAFe:

AWS Certification: Certified AWS Architect (Accenture)

Azure Certifications: Azure Trainer, Azure Architect, Azure Security Engineer, Azure DevOps, Azure AI/Big Data, SAP HANA on Azure

Checkpoint Firewall Engineer

Cisco Certified Network Engineer

Cisco PIX Engineer

Cisco UCS/vBlock (Cisco + NetApp) Certified Engineer

DevOps (OneOps: Azure DevOps, GCP DevOps)

GCP Certification: Certified Accenture GCP Architect

HortonWorks Certified HDP & HDF Architect, Admin

IBM Systems Engineer Certification – IBM AIX, HA/CMP

Microsoft Azure Partner Program Certified Solution Architect

Network Appliance Certified Engineer

Oracle RAC/DBA certification

SAP HANA Partner Engineer

SAP HANA: Technical Certification

VMWare Certified Engineer

**Classes Taught:**

Agile processes for Big Data Transformations

AWS Infrastructure (Big Data DevOps, EMR (Hadoop/Spark), Redshift, Terraform)

Azure: 15+ Certification Classes/Training Workshops: Azure DevOps, Azure Kubernetes Service, Azure DataLakes, Azure Big Data, Azure Technology, Azure Architect, Azure IoT, Azure Security, SAP HANA on Azure

Hadoop, Hive, Spark, Spark Streaming, Kafka/Flume

SAP LVM, SAP LaMa, DevOps for SAP (SAP Cloud, Azure, AWS), SAP Basis, SAP GRC, BO GRC

University: Cloud Cybersecurity (2021)

University: Cloud Fundamentals (2021

University: DevSecOps (2021, 2022)

University: Computer Science (2021, 2022)

**Citizenship:** U.S.

**Security Clearance:** US – Secret (expired)

**Skills Matrix**

Accenture Applied Intelligence Platform (AI, ML, ETL/ELT)

Agile processes for Big Data Transformations: Sprints, Kanban

Agile/DSDM

Apache Airflow, Flume, Hadoop, Hive, Spark, Spark Streaming, Kafka

Application & End User Monitoring (Dynatrace, New Relic, Splunk, SolarWinds)

AWS Big Data DevOps, EMR (Hadoop/Spark), Redshift, Terraform, DevOps, EC2, ECS, Lambda, API Gateway, Cloud Front, Cloud Watch, Kinesis, AMI

Azure: Advanced Data Factory, Agile, AI, Big Data, CI/CD, Containers/Docker

CosmosDB, Data Lake Analytics, Data Lakes & Data Lake Store, Database for MySQL, Database migration service, DataBricks (Data Lake & Delta Engine), Azure DevOps, Docker, Edge, Event Bus/Event Hub, Functions, HDInsights (Hadoop Spark Kafka), IoT, Kubernetes/AKS, Machine Learning, PowerShell/Automation, Security, Stream Analytics, System Center

Bamboo

Bash

Cassandra (Apache, DataStax)

CircleCI

CloudBees

Confluence

Docker (Compose, Swarm, Packer)

Drupal

DSDM (Agile)

Elastic Search (also Logstash, Kibana, ELK)

Git, GitHub, GitLab

GNU Linux: RedHat, Ubuntu, SELinux, Alpine

GoLang/Go

Google GCP (BigTables, BigQuery, Kubernetes, DevOps, DataFlow, DataProc, Anthos, Istio, Velostrata, GKE)

H2O: ML DevOps, Driverless AI, beta of Q

HipChat

HortonWorks HDP & HDF Architect, Admin: Hadoop, Kafka, Spark, NiFi

Java

JavaScript, Node.js, NPM, etc.

Jira

Jupyter Notebooks, JupyterLab

Kafka (Azure, Hortonworks, Confluent, IBM, Kafka Proxies)

Kibana

Kubernetes (AWS, GCP, Azure), Anthos, Swarm, Helm, CNI’s, Cloud Cluster Manager, Multicloud, sidecars, ingress/egress controllers

Linode (AWS, Azure, Linode Kubernetes)

Logstash

Matlab

Medusa, Nginx

MITRE ATT&CK Framework

MongoDB, MySQL, MariaDB, CosmosDB

MuleSoft

Network Appliance

NiFi (Apache, Hortonworks)

OneOps: Azure/GCP/OpenStack

Onyx Cloud Automation (Consona)

Oracle Cloud (Oracle Cloud services, Oracle Autonomous Database, Oracle Autonomous Linux, various Oracle Cloud Applications)

Oracle RAC/DBA, ODB, GoldenGate

Packer

PMI (PMP)

PostMan

Project Management Professional

Python, Python ML libraries (varying currency, includes Pandas, PySpark, scikit-learn, NumPy, Theano, PyTorch, Tensorflow Python, Keras)

R language

Salesforce, Force.Com

SAP BASIS, GRC (CUP, SPM, ERM), Business Objects GRC, Strategic Enterprise Management: SEM/BCS, SEM/BPS, AFS, Fashion Vertical

SAP Cloud, SAP on Azure, SAP AWS, SAP on GCP

SAP HANA & S/4, BW for HANA: AWS, GCP, Azure, Very Large HANA instances

SAP HANA & SAP S/4 for Azure

Security/Threat tools (Attivo Networks, Cyberfusion/MFT-IS, CyberMDX, CyberX, Firedome, SecuriThings, Vintella, WebSeal)

Selenium

Simian Army (Chaos Monkey)

Site Reliability Engineering (SRE) SLO/SLI/Observability

Six Sigma Green Belt

Slack

Snowflake

Spark

Splunk Enterprise, Splunk Security, AppDynamics, Sumo Logic, SolarWinds, DataDog, Medusa Enterprise)

Tensorflow

Terraform (Azure w/ARM templates, AWS, GCP, Oracle Cloud)

WordPress