

Cloud Engineer

Certifications/ Recognition Certified OpenStack Administrator (OpenStack Foundation)
Certified AWS Solutions Architect – Associate (Amazon)
Certified Azure Fundamentals (Microsoft)
Open Cloud Expert (AWS, OpenStack, Azure, Google Cloud, IBM BlueMix, Kubernetes / Docker)
CCNA (Cisco)
Linux+, Security+, Network+, A+ (CompTIA®)

Core Competencies Public/Private Cloud

- Recognized OpenStack cloud platform expert fluent with all core projects & API automation
- Fluent with AWS VCP, EC2, IAM, S3/EFS/EBS, RDS, ELB and many others
- Experienced with Microsoft Azure cloud design and concepts
- Deep experience designing and implementing large or complex technology stacks
- Natural leader of cloud engineering teams with superior presentation skills

Software-Defined Operations (GitOps)

- Complex deployment experience with CI/CD pipelines and cloud deployment workflows
- Experience automating complex systems with multiple up/downstream dependencies
- Very good with thorough documentation and conveying technology with multiple audiences.

Specialization: Artificial Intelligence (AI) & Machine Learning (ML)

- Focus areas: Speech/sentiment recognition, intent and networking
- Experience building reinforcement learning plans
- Coded self-healing network routing synthesis using PyTorch, Python and R

DevOps Orchestration: Terraform, Chef, Ansible, Resource Manager (Azure), CloudFormation/Lambda (AWS)

Code control: git, Jenkins and JIRA (agile).

Languages & Frameworks: Python, Golang, Ruby, R and PHP with some JScript and VB.NET; GitOps/IaaS, J2EE, PyQt, PyTorch (ML)

Virtual Networking Solid understanding of leading industry SDWAN architectures and players (Tungsten Fabric, Cisco ACI, VMware NSX, SR-IOV/DPDK) including traditional networking concepts such as TCP, VxLAN/GRE, RIP/EIGRP/OSPF, PPP/VPN/Frame, BGP/eBGP/MPLS and L3VPN and IPSEC.

Platform Engineering Cloud Platforms: OpenStack, AWS, Azure, VMware, Docker/Kubernetes and VMware
Operating Systems: RHEL/CentOS, Ubuntu, SUSE and Windows Server
Storage: CEPH, Cinder, Swift, Redis, MongoDB and centralized (NetApp, EMC, Hitachi, Nimble)

2011 – Current *Confidential Personal Consulting Firm*
Principal Cloud Consultant

Significant Achievements

- Open-source Windows/Mac GUI “OpenSphere” to provision and manage containers using Python3, PyQT5 and Kubernetes
- Design and develop bare metal cloud deployment system using Ansible, Python, Cobbler, Zabbix, Django
- Crypto-currency arbitrage and trade framework using ML-driven trading algorithms using Python3, PyTorch, PHP & Redis
- Offline voice-control bot with modular speech interpretation. Maintain and support legacy build and porting code from Python2 to Python3

Starbucks (NASDAQ: SBUX) – Sr. Cloud Developer (Jan/2020 – Current)

Build automation for cloud SaaS platform with Python, Go and Chef. The cloud manages over 30K machines across 15K stores saving the company millions in operational support costs.

AT&T (NYSE: ATT) – Lead Cloud Engineer (Mar2018 – Feb2020)

Lead engineer focused on complex cloud designs delivering security services for private and public customers, planned data migrations and helped develop a national cloud delivery practice.

Hewlett-Packard Enterprise (NYSE: HPE) – Cloud Engineer/ Developer (Jan2017 – Mar2018)

Provide architecture and orchestrate/develop custom SAPaaS cloud platform
Lead team building a hyper-scale OpenStack cloud using KVM, VMware, K8S and bare metal.

NVIDIA Corporation (NASDAQ: NVDA) – Cloud Storage Engineer (Sep2016 – Jan2017)

Part of a team of engineers building autonomous vehicles and speech synthesis systems using privatized cloud services. Focused on services with significant storage, virtualization or network IO.

First Republic Bank (NYSE: FRC) – AWS Cloud Architect (Jul/2016 – Oct/2016)

Produced series of cloud patterns and designs, designed internal cloud standard definitions governing use of cloud services for security, connectivity and application onboarding.

Wells Fargo Bank (NYSE: WFC) – Sr Web Systems Engineer (Jan2015 – Jul2016)

Produce infrastructure designs and manage deployments. Managed Java software platform with recurring update and changing audit compliance requirements.

CrowdStrike (NASDAQ: CRWD) – Security Consultant (Sep2015 – Dec2015)

Worked on task force to secure and investigate potential breach of a high-profile politician’s email system. Specific focus on embedded IPSEC, HTTPS content forging and response manipulation.

Juniper Networks (NYSE: JNPR) – Sr. SDN Engineer (Mar2014 – Sep2015)

Configure fully-federated clouds across 3 N+2 datacenters connecting compute cloud, Kubernetes+Docker clusters, bare metal and VMware ESXi farms using Contrail SDWAN and NSX.

Cisco Systems (NASDAQ: CSCO) – OpenStack Engineer/Instructor (May2013 – May2014)

Define network footprint for WebEx development clouds across five discreet data centers. Teach OpenStack deep-dives, SDN & Python to internal engineers supporting large external customers

Experis (NYSE: MAN) – Cloud Developer (Nov2012 – May2013)

Develop a new cloud consulting practice within Experis – a subsidiary of Manpower Inc.

SAP (NYSE: SAP) – Cloud Storage Automation Engineer (Jul2012 – Jan2013)

Build and automate a global storage cloud using Chef, OpenStack Swift and Keystone.

Autodesk (NASDAQ: ADSK) – SDN Security Consultant (Apr2012 – Jul2012)

Investigate SDN/NFV deployment strategies and best practices for emerging technology roadmap.

JABIL Circuit (NYSE: JBL) – Solution Architect (Oct2011 – Apr2012)

Design multiple custom OpenStack and Hadoop solutions on high-density hardware.

McKESSON (NYSE: MCK) – Cloud Migration Consultant (Jul2011 – Oct2011)

Migrate bare metal and ESXi VM's to Amazon AWS.

2007 - 2011

Blue Shield of California

Sr. Applications Engineer (Overflow Infrastructure Architect)

Work Summary

- Software development, J2EE/WebSphere and Python support engineer
- Infrastructure architecture (as needed) focusing on network and data-intensive applications
- DevOps focused on VMware, Windows, PowerShell scripting and automation/ orchestration SME

Publications & Leadership

Current **Network Computing (UBM)**

Current **Open Cloud Council**

Current **Cloud Standard Customer Council** Current **OMG Cloud Working Group**

Current **Cloud Advisory Council**

Past **Networking World**

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