Kunal Malhotra
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EXPERIENCE

Mckinsey & Company
Senior Cloud Engineer I – Cloud by Mckinsey Team | Jan'1-Present

- Led the design and implementation of a CI/CD workflow for end-to-end testing of MQ messages at a financial service client based out of Europe, reducing the number of incidents caused due MQ issues by 80%. The workflow consisted of steps to test an MQ message end-to-end i.e., check for incorrect headers, metadata issues, format issues and data issues. Moreover, the workflow also consisted of steps to check incorrect queue config and message size.
- Worked as cloud and site reliability engineer in a FinOps engagement for multi-national company. Worked on multiple use case such as re-architecting the application to utilize managed services provided by the cloud provider, monitor cloud resources (CPU, memory, disk, network utilization, number of requests etc.) in an effective manner, implementing auto-scaling capabilities of Kubernetes and virtual machine infrastructure and PaaS services. Work above resulted in bring the total monthly cloud consumption by 20%.

N26
Site Reliability Engineer – Connectivity Team | Dec'21-Dec'22

- Led the architecture design, engineering including development of automation for provisioning of service/infrastructure and integration of partner bank to enable N26 process instant payment in one of the the euro countries. The custom designed and engineered solution supports over a 1M payment per day.
- Participated in the implementation of service-mesh with the extended to team to put the foundation for zero trust network.
- Led PoC to implement service-mesh into N26 traditional infrastructure (application running virtual machines) to reduce the time and effort of integration (end-to-end encryption for data in motion with mTLS, routing, service discovery) with application running in virtual machines.
- Led the development of automation required by connectivity team during system maintenance. Automation eliminated any human error that was possible and reduced the time required for system maintenance by 95%.
- Participated in the implementation and maintenance of company-wide networking platform service such site-to-site vpn external partner, client-to-site vpn for internal employees, creation and securing of all networking components (VPC, load balancers, DNS Server/Service management, Certificate and secret Management).
- Participated in regular developer support on call.
- Participated during incident and conducted root cause analysis meeting.

IBM
Cloud Platform Engineer - Cloud Platform Team | Oct'18-Nov'21.

- Led the migration of a multi-national bank mobile banking environment from on-prem cloud. Responsibility included analyzing services which could be migrated to cloud with no or minimal changes, building and executing the plan to make necessary changes in the services not ready for cloud, development and implementation of the landing zone, integration with banks on-prem network, safely migrating data from on-prem databases to cloud, developing CI/CD and implementing IBM Cloud for Financial Services Framework for risk and compliance needs.
- Led implementation of Redhat OpenShift Platform at the edge to for multi-national bank. Providing the bank with the capabilities to deliver services to their client and still meet the requirement of compliance requirement of data residency.
- Participated in delivering successful pilots and projects for several clients across industries included regulated industries.

- Co-authored "Client Reference Architecture Playbook", an IBM Academy of Technology initiative, used globally by our clients to set their cloud native architecture strategy.
- Created and delivered enablement content on cloud-native technologies including Docker, OpenShift, Kubernetes, Istio, Tekton, Terraform and IBM Cloud Services to enterprise clients and IBM teams.
- Evangelized IBM Cloud by working directly with IBM's early adopter program including client success with Kubernetes, OpenShift and virtual private cloud.

Cloud Advocate And Developer - Cloud Platform Team | Sept '17-Sept '18
- Delivered an MVP (first stage) for a government project as a front-end developer that produced a sound foundation for the project.
- Designed and developed a proof of concept based on automating insurance claims via blockchain for a government client. The client selected the PoC and as an outcome, the PoC was showcased at Arab Health Conference 2018.
- Developed a skills-based search engine using cloud-native technologies that connected tech seller with the optimal skill set for client engagements.
- Increased IBM Cloud Services (IBM Kubernetes services, cloud databases, Watson services and DevOps) skills for architects and technical sellers by developing a platform to share knowledge and hands-on experience. The main focus was on sharing best practices, demos and technical collateral across IBM Cloud teams.
- Trained 100+ developers using IBM Cloud Technologies by producing training materials and conducting workshops with hands-on labs.

Startup Elves
Software Developer Intern | July'17-Aug'17
- Developed an android based application (BeeHealthy) to automatically digitize the prescriptions and medical records of the patients.

Prof BankU
Software Engineer | June'15-June'17
- Led the development of an android application that helped students prepare for government exams in India.
- The application was downloaded by over 100 students after the launch.

Innovation i360
Software Developer Intern | March'15-May'15
- Developed HTML5, CSS3 and PHP application for Innovationi360 teams.
- Created a new database architecture for the website www.turn8.co.
- Designed and developed a website known as www.devlab.com.

EDUCATION

Birla Institute Of Technology And Science, Pilani - Dubai Campus
Bachelors Of Engineering (Honours) in Computer Science | Class Of' 18

Bachelor Thesis
Large Scale Sentiment Analysis Using Apache Spark
Prof. V Santosh Kumar | Feb'18-May'18
- Built a framework for large scale sentiment analysis capable of handling hundred of nodes using Apache Spark, Apache Kama, MLlib2, Pandas, Matplotlib, Python.
- Implemented the famous bag of words algorithm from scratch.

SKILLS

Redhat Openshift, Kubernetes, Knative, Docker, Service Mesh (Istio), Helm, Tekton, Terraform, Vault, Consul, Python[Flask], GoLang, Vanila JavaScript, Git, ELK Stack, Datadog, AWS Cloud Platform, IBM Cloud Platform, Site-to-Site VPNs, Client-to-Site VPNs, Saltstack, Github Actions and Argo CD.

CERTIFICATIONS

Name	Issuing Organiza>on
Certified Kubernetes Application Developer	The Linux FoundaHon
IBM Certified ApplicaHon Developer - Cloud Platform V2	IBM
RedHat Certified Specialist in Openshift Administrator	Linux Academy
IBM Architectural Thinking	IBM

AWARDS

- Awarded as Rookie Of The Year for technical achievements at IBM's Annuals Recognition event in Spain.
- Won Runner-Up Prize at Junction 2018 (Europes Biggest Hackathon) in Finland.
- Won 2nd Prize (Best use of data) at Dubai Happiness Tech Sprint 2018 organized by Startupbootcamp and SAP.
- Presented Paccked (Startup) at IATA International Business Travel Submit 2017 at Geneva, Switzerland.
- Won the Developer Prize Award and Emirates Special Award for Best API usage at IATA NDC Hackathon held in Dubai.
- Won the Bronze Medal at the Ministry of Finance Smart City Hackathon held in Dubai.
- Received 1st place in CodeJam 2016 organized by Oracle at Middlesex University Dubai.
- Received 3rd place in Visa Digital Payment Hackathon 2016 held in Dubai.
- Won 3rd Prize and incubation at Hamdan Innovation Incubator at Hacka{MENA} Hackathon held in Dubai.
- Received 2nd place in IoTX Hackathon 2015 organized by Government Of Dubai.