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**Kranthi Kumar Allam**

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**Summary:** Having 11 years of technical experience, with a focus on infrastructure design and architecture. Assisted customers in adopting the cloud, utilizing 7+ years of hands-on experience designing cloud platforms on Amazon AWS, Azure and GCP. Skills include migrating systems, automating processes, optimizing performance, managing security, implementing configuration management, integrating microservices, transforming to a DevOps model, implementing logging systems, and implementing backup and disaster recovery measures. Resourceful Solution Architect with 5 years of customer relationship management and implementation support.

**Skills**

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| Cloud Technologies | AWS, Microsoft Azure, and GCP |
| AWS Services | VPC, Route53, EC2, S3, EBS, EFS, RDS, Dynamo-DB, Lambda, IAM, Cloud Watch, Cloud Inspector, Security Hub, Secrets Manager, KMS, CICD services, Cloud Formation, SQS, SNS, SES, Event Bridge, Direct Connect, VPN, Storage Gateway, Workspace, Work Docs, Cloud Trail, |
| Azure Services | IAAS, PAAS and SAAS. Azure Integration services. Virtual Networks, Traffic Manager, VM's, Azure Storage, (Block Blob, Page Blobs), Azure VPN, Application & Operational Insights. Files, Azure Backup, Azure Data Box, Site Recovery, Cosmos DB, Active Directory, Azure Monitor, CDN, Service Bus Queues, Marketplace Email, Azure Migrate, Azure Pass services   Notification Hubs, Express Route Kakfa |
| GCP Services | Compute engine, Kubernetes Engine, cloud storage, App Engine, Big Query Vpc network, cloud functions, Cloud Run marketplace, IAM, database, backup, monitoring ,pub/sub, CI/CD |
| Cloud Architect | Cloud Infrastructure Management, Cloud Security and Compliance, Cloud Migration and Deployment. Cloud Networking and Connectivity, Cloud Storage and Database Management, Cloud Monitoring and Optimization. DevOps and Automation. Cloud PAAS |
| Configuration Management & Automation Tools | Ansible, Terraform |
| Scripting Languages | Shell, Bash, Json, YAML |
| Databases | MySQL, Dynamo DB, Cassandra, SQL Server, Oracle,  Mango DB, RDS Cosmos DB, NoSQL |
| Project Tracking/Bug Tracking Tools | BMC Remedy, HP Digital Workflow, Version One, Service Now |
| Version Control Tools | GIT, GITHUB, Bit bucket |
| Networking | DNS, DHCP, TCP/IP, SMTP |
| Container Platforms | Virtualization/Container Docker, Open Shift, Kubernetes. |
| Operating Systems | SOLARIS, Centos, Ubuntu, Windows Server 2003/2008R2/2012/2016, |
| Monitoring Tools | Cloud Watch, Splunk, |
| Application Servers | Apache, Web Logic, Web Sphere, |

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| **Work History** |

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| 2023-10 - Current | **Lead Cloud Solution Infrastructure Architect**  **Bank of America, Irving, TX**   * Designing and implementing **Azure Solutions** across a range of cloud models like **SaaS, PaaS, IaaS**, and integrated on-premises, on-demand workloads with the Azure public cloud * Extensively worked on **Building** and **Installing** **servers**, creating multiple resources like in **Azure** through **Azure Resource Manager Templates** (ARM) or Azure Portal and provisioned them using **Terraform templates**. I also worked on **Virtual networks, Azure Custom security, endpoint security and firewall**. * Worked in setting up **Azure Virtual Appliances (VMs)** to meet security requirements as software-based appliance functions(firewall). * Developed and designed **Azure DevOps** **pipeline** to manage the resources across multiple subscriptions in **Azure**. * Worked on **Azure Migrate** to migration servers, web applications and Databases from On- prem to cloud. * Worked on **Azure Integration Services like Logic Apps, Functions, API Management, Services Bus, and Event Grid** to orchestrate seamless communication between applications. * Led the implementation of **Azure-based SRE** practices for a large-scale enterprise application * Worked on **Refactor Migration** methods to migrate containerized applications and migrate them to Azure. * Worked with **Version Control, Build** & **Release** Management and Deployments of the Solutions to the **DEV**, **QA & PROD** Environments leveraging **Azure DevOps/VSTS** principles/process (CI/CD) and toolsets of Visual Studio, AKS **(Azure** **Kubernetes** **Service**), Application Insights, Log Analytics. * Having Experience in creating and deploying **Jenkins Pipeline** for Java based applications **using Maven, SonarQube, Argo CD, Helm and Kubernetes** * Deployed containerized applications to AKS * Having Experience in creating, publishing, and managing **APIs** while ensuring security, scalability, and analytics using **API Management** * Worked on **Microservices** for Continuous Delivery environment using **Azure**, **Docker.** Involved in setting up a **Microservice** **architecture** for application development and implemented high availability with **Azure** Classic and **Azure** Resource Manager deployment models. * Provisioning servers/instances using infrastructure as code such as **Terraform** and **CloudFormation**. Code is stored in a private repository and constantly updated. * Worked on **Terraform templates** also for provisioning **virtual networks**, **subnets**, **VM Scale sets**, **Load balancers**, and **NAT rules** and used terraform graph to visualize execution plan using the **graph** command. Configured BGP routes to enable **ExpressRoute connections** between on-premises data centers and **Azure** cloud. * I Used **Kafka for Log Aggregation, messaging Systems Event sourcing (State of an application ), and Metrics and Monitoring** |

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| 2016-11 - 2023-09 | **Cloud Infrastructure Architect**  **Bank Of America**   * **Worked on the Azure Architecting and some part of AWS and GCP too** * Designed and implemented multi-tier architectures for web applications, ensuring high availability and fault tolerance. * Created serverless architectures using **AWS Lambda for microservices**, optimizing resource utilization and reducing operational overhead. * Implemented hybrid cloud solutions, connecting on-premises data centers with AWS using **AWS Direct Connect and VPN**. * Led the **migration of on-premises** applications to AWS, employing various migration strategies such as rehosting, re-platforming, and refactoring. * Integrated AWS services with third-party tools and APIs to streamline business processes and enhance overall system functionality. * Implemented **auto-scaling configurations** for applications, ensuring optimal resource allocation based on demand fluctuations. * **Design, build and configure** applications to meet business process and application requirements. Designed and deployed scalable and resilient **virtual machine** instances on **GCP Compute Engine.** * Designed and implemented **IAM policies** to enforce least privilege access control across GCP resources. * Implemented Security Command Center to **monitor** and manage **security risks** across GCP environments. * Designed and configured Virtual Private Clouds **(VPCs)** to establish isolated and secure network environments. |

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| 2013-04 - 2016-11 | **Technical Specialist -–Storage Management**  Wipro Technologies  · Wipro is engaged with CHI (Catholic Health Initiatives) – USA International Hospitalities to Manage Storage operations 24 X 7 from offshore. The Current SAN is approx. 15 PB of storage and approx. 7000 switch port SAN. Hardware including multiple EMC Clarion, VNX, DMX, VMAX, IBM, NetApp, HP-EVA, HITACHI USP-VM, AMS 2100 & Dell, Brocade DCX series, MDS 9124, MDS 9513, Etc. Total Team size is 7, currently working as Senior Storage Administrator  · Administration/Troubleshooting of heterogeneous Storage environment EMC Clarion, VNX, DMX, VMAX, Fabrics – Cisco & McData/Brocade  · Write technical designs and plans for changes/Perform Quality Reviews on planned changes |

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| **Education** |

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| 2009-07 - 2011-07 | Master of Science: Computer Science  Waterford Institute of Technology - Ireland |

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| 2004-05 - 2007-07 | Bachelor of Science: Computer Science  Chaitanya Degree College - Warangal |

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| **Additional Information** |

**https://www.cloudskillsboost.google/public\_profiles/229daa61-af76-47d3-9da9-2ceb7fd4f451**

**https://learn.microsoft.com/en-us/users/kranthiAllam-6796**

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| **Certifications** |

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|  | Project Management Professional PMP |

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|  | EMC Proven Professional (E20-001) –Information Storage and management. |

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|  | EMC Proven Professional (E20-517) – Symmetric Solutions Specialist. |

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|  | AWS Knowledge: Cloud Essentials |

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|  | AWS Knowledge: Architecting |

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|  | Azure (Trophy Badges) KranthiAllam-6796 | Microsoft Learn |

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|  | Google Cloud Fundamentals: Core Infrastructure Professional Cloud Architect Journey |