**SRIRAM CHERUKUMILLI**

**SUMMARY:** Experience in the architecture and design across all tiers with emphasis on cloud and enterprise systems.

**Education:** Master of Science in Information Technology from University of Dallas

Bachelor of Science in Engineering, Madras, India

AWS Certified Solutions Architect Associate

AWS Certified SysOps Administrator Associate.

AWS Certified BigData Specialist.

AWS Certified Solutions Architect Professional.

**PROFESSIONAL EXPERIENCE**

### [Architect Harris Computer Oct 2016 – Present Carrollton, TX](https://www.linkedin.com/company/1400/?lipi=urn%3Ali%3Apage%3Ad_flagship3_profile_view_base%3BMt0QLgx3QZ2FIV26DXxPgA%3D%3D&licu=urn%3Ali%3Acontrol%3Ad_flagship3_profile_view_base-background_details_company)

Following are the tasks in which I mostly led the efforts in the design and development of cloud services.

* Building data ingestion platform from the ground up using AWS services such as S3, Hadoop Hive Map/Reduce processes EMR, SQS, Kinesis, AppSync, Elasticsearch and DynamoDB. Reduced the cost data loads in cloud by one seventh by implementing patterns for parallel job executions and high throughput database configurations.
* Building AWS CI/CD automated pipelines used by a team of engineers from the ground up through AWS CodeBuild, CodeCommit, Cloudformation, (Terraform lately) and CDK to support feature development, unit testing and DEV environment isolation.
* Developed patterns for migrating legacy temporal SQL data models to a Dynamodb based graph database backed by Appsync GraphQL APIs.
* Building high performing API gateway/lambda serverless API platform to achieve a near real-time data synchronization with on-premise data sources. Achieved sub second latency on APIs by using patterns/algorithms to process payloads as numerous graph data nodes.
* Building Kubernetes based PAAS platform to host enterprise application by partitioning, containerization, scaling and resource pooling; By being a proponent of K8s helped eliminate the immediate cost of largescale application refactoring while achieving same benefits as real PAAS.
* Acting as AWS service security custodian to enforce account and user/group level permissions by integrating Azure AD and AWS IAM policies and permission boundaries.
* Advising on cloud platforms and operations to reflect the best cost savings architecture and latest service offerings.
* Evaluating and recommending AWS managed services solutions to the team by highlighting the merits and demerits of various design approaches.
* Developed high performance Azure batch jobs and logic apps that migrate on-premise data to cloud.
* Led a team that addressed OWASP security threats in enterprise application software.

**September 2012 – October 2016 Argo Data, Senior Engineer/Architect**

I was responsible for the technical design and design pattern based implementation of middleware on Azure stack.

* Azure service fabric platform infrastructure services for semantic web HATEOAS based service choreography and integration, distributed caching that can plug-in Redis/Azure Cache/MemCache, messaging frameworks (through Azure Service Bus and SignalR).
* Windows Workflow Foundation 4.5 based workflow engine that abstracted developer specific and platform specific details presenting business friendly orchestration blocks to manage orchestration among RDF.NET SOA/REST services.

My work was to design data models from the ground up, develop application architecture design from business requirements, provide various technical design alternatives and present them to stake holders to arrive at consensus design. Most of these tasks were from the ground up without any base code or application and was implemented using standard design patterns and practices.

Tools/Technologies: Visual Studio 2012, SQL Server 2012, TDD, BDD and extensive DI (Unity & MEF).

**June 2014 – June 2015** Worked as a *part-time* freelance consultant architect to yourpost.com web site. I was the architect for AngularJS/bootstrap based front-end UI and ASP.NET Web API services backend.

**May 2010 – August 2012 Lead Developer EMSI (Health Insurance Company in Irving)**

Responsible for a windows communication foundation and windows workflow foundation based health insurance order fulfillment product that used complex event driven reentrant task generation and assignment. This web service infrastructure integrates with companywide services and other healthcare service providers. Non-technical responsibilities include interacting with business analyst to implement design/development, mentoring junior developers, planning release deployment and production support.  
Tools/Technologies: Visual Studio 2008 / 2010, .NET 3.5/4.0 and WCF

**September 2006 – March 2010 Yahoo! Inc, Richardson, Senior Technical Yahoo**

As a member of streaming center automation/tools/monitoring group that is responsible for video center streaming on Windows platform, the following were some of my projects,

* Leading design, technical architecture and development of streaming server statistics collection project. The task involved writing streaming media server .NET multi-threaded windows services and REST web services that collect statistics from streaming servers then cache and aggregate on distributed queues. Development of RDBMS packages to aggregate and supply the stats to ASP.NET dashboards through web services.
* Design of various video streaming server components like caching .NET windows services that reduced round trips to physical storage from the streaming server by using better disk file storage and indexing methods and efficient .NET I/O operations.

* Setting up a wiki explaining various open source and yahoo tools to be used to optimally achieve continuous integration in Video Platform's new projects.

Tools/Technologies: Visual Studio 2008, ASP.NET, REST, WCF, SQL Server 2005 and Oracle.

**March '05 – August '06, Adea Solutions (Verizon), Irving, Software Consultant – Architecture Team**

Member of core .NET architecture team that designed application framework components and services used by a team of ASP.NET web developers. Tools/Technologies: SQL Server, ASP.NET.

**Applied Materials May '03 - Feb ’05**: Developed high performance optimized transactional COM+ components and Oracle databases of a FAB software to control high volume real-time transactional no downtime manufacturing process. Tools/Technologies: Visual C++, .net and Oracle 8i

**Visual Networks Sept '00 - Ma '03**: Worked as server group software engineer in the design and development of server software for a product Visual UpTime.Tools/Technologies: Visual C++, Microsoft stack and various network protocols.

**Ademco Group (**part of **Honeywell Feb '99 - Jul '00)**: Worked as a software consultant in the development of a access control product named MIC-Access that provides security management solution for major US Airports.