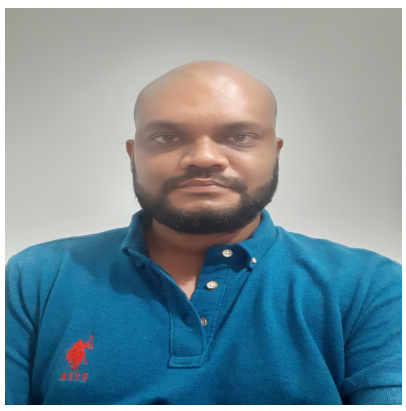

Thiru K

Principal Member of Technical Staff(PMTS)@athenahealth
B.E. Computer Science
Experience: 2007 - till date

About Me

I am a software professional with ~15 years of experience in enterprise application development. I have designed and developed highly scalable,available,secured and fault tolerant enterprise applications. I have a habit of writing clean and responsive code. I have also designed and implemented DevOps process from scratch which is currently being used by a team of 80+ developers.

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Professional Skills

- Backend-Coding
- Agile
- Platform
- Devops
- Frontend
- Planning

Technologies

Data Structure & Algorithm | Perl | Java | PL/SQL | C | Shell Scripting | Distributed Systems | Microservices | Spring Boot | Rabbit-MQ | Kafka | Oracle | Postgres | JavaScript | ECS, S3, RDS, GA, Lambda, IAM, Global Accelerators, Load Balancers | Git, Jenkins, Maven, SonarQube, Docker | Prometheus, Grafana, xMatters

Certification

- AWS Certified Solution Architect Associate
- PSM1 Certified Professional Scrum Master
- Oracle Certified Associate
- TOGAF Foundation Certified

Work Experience

Principal Member Of Techinical Staff at athenahealth

Rules 2.0 Program (Jan, 2022 - Present)

Rules 2.0 program is to rearchitecture almost 2 decades old rules engine based on PERL into decision based DMN engine. Leading 3 workstreams in Rules 2.0 program:

- **Federated Decision Services(FDS):** Objective of FDS is to expose Billing engine's knowledge as small DMN engine microservices in previous phases of Revenue cycle to reduce time and avoid unwanted dependencies.

  22.3: Enterprise grade microservices needs non-functional requirements like monitoring, audit, logging, error handling and analytics. To simplify the enterprise grade microservice creation, we spent 22.3 creating SDK for aNet to simply the logic to implement decision sevice call and a SDK for microservices called rules-platform to simplfy spinnning up a decision services.
  22.7: Implemented Decision service called Coding Scrub to evaluate the coding details in Billing workflow's charge entry page. Also onboarded 2 customers for microservices SDK (ECR and CRS)
  22.11: Adding 12 more rules to coding scrub.

- **Kanban:(21.11-22.11)** Objective of this stream is to respond to rule update/addition request in DMN engine. Work colloboratively with business team to make them comfortable with doing DMN changes and also implement pre-processor & post processor plugins when ever needed.

- **Rollout Stream:** Objective of this stream is to evaluate the rules churned out by migration stream, make sure they are functionally equivalent to 1.0 rule and there is no performance issues and roll it out to production.

Lead Member of Technical Staff(LMTS)at athenahealth

Rules 2.0 Program (Aug, 2018 - Dec, 2021)

2021:

Lead 3 work streams in Rules 2.0 program:

- **Ecosystem Stream:**
  As Rules2 project reachitectures legacy rule engine into DMN engine, it demanded new unique identifier equivalent to legacy rule engine's claim rule id. As part of ecosystem work stream,

  1. Did changes to new introduce new unique identifier called Business Requirement ID(BRID) for DMN Engine rules
  2. Changes in workflow tool and anet code base to use BRID
  3. Introduced rules transfromation life cycle to graciously retire the rules in legacy rule engine
  4. Worked with 30+ teams who are current consumers of claim rule id to adapt BRID

- **Prod Support:**
  Monitor the applicaitons 24*7 to ensure stability and fix the functional equivalence defects in rules.

- **Kanban:** Handle rule addition/update requests within TAT.

2018–2020:

- **Factory Stream:**
  Transform the rules from legacy rule engine to Operational Decision Manager(ODM)

- **System Stability:**
  Create and manage services in AWS. Some of the critical works accomplished during this phase are:

  1. Created Lambda Service to retrieve request response payload from S3
  2. Prepared security threat model

3. Introduced Basic Authentication for ODM
4. Partitioned the PGADMIN audit log table to improve maintainability

Senior Member of Technical Staff(SMTS) at athenahealth

Rules 1.0 Program (2015 - 2017)

2017:

Advanced Rules Configuration Page(ARC): For RHC/FQHC/PBC practices, we have to create special set of rules to enable speciality billing for them. This was a blocker to onboard more than 4 practices in a month as we had to create and test the rules to onboard them for speciality billing. ARC page lets BIZ team configure the billing criterea for speciality billing. For each configuration in ARC page, there will be a corresponding global rule to take action based on the configured value. This reduced the overhead to onboard new specialty billing customers. Single handedly designed and implemented the ARC page.

2016-2017:

Lead RFP stream in Rules zone to onboard practices for RHC/FQHC/PBC speciality billing.

Tech Lead: at TCS Montreal-Canada

Dec, 2010 - Nov, 2014

Project: Voice Billing – GBS [2009 – 2014] Global Billing System [GBS] is the Voice Switched services billing system for the wholesale market for all former TELEGLOBE entities around the world. Processes the incoming traffic, rate the traffic and produces the invoice for the receivable services & declaration for the payable services.
Technical Activities Undertaken:

- Migrated the GBS applicaiton from Solaris to Linux. Completely owned the migration activity at client location
- Developed modules from scratch to integrate rates from interface applications into Billing System.
- Designed and developed invoice summary report for customer in Pro*C using XML.
- Rearchitectured GBS to use Efficient XML Interchange(EXI) format from fixed binary format. This reduced the overhead to add new fields to Call Detail Records(CDRs)
- Rearchitectured Rating application to load rates into memory in an efficiently using multiple shared memory segments instead of single segment. This reduced the rate segment loading time from 4 hours to 30 minutes.

Developer: at TCS

Dec, 2010 - Nov, 2014

Project: Mediation – RECS [2007-2008] Mediation RECS System is responsible for collecting the Raw CDR (Call Detail Record) Files from the Network Elements, processing it and distributing to various Downstream Application Systems. RECS work in near real-time processing mode.
Technical Activities Undertaken: RECS application has to be developed specific to switch depending upon the CDR format for the corresponding switch.

- Developed RECS applications for 3 different switches in C.
- CDR files comes in different formats like BCD, HEX, little/big endian Binary. Worked with all these kind of files during first year of my career.

Education

Bachelor of Engineering - Computer Science from Anna university

2002 - 2006

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