

Suyambu Ganesh. T

Profile

Academics – Department Topper

- B. Tech-Information Technology: 2001 - 2005
 - 78.21%, Distinction, (Department First Rank)
 - Cape Institute of Technology, Affiliated to Anna University, Chennai
- Department Topper – My name in Honors Board

Sl. No.	NAME	BRANCH	%	CLASS	RANK	MONTH	YEAR
1.	S.UDAYA RAJARAM	ECE	83.08	F.D	I	APRIL	2005
2.	N.SETHUPRIYA	CSE	80.00	F.D	I	APRIL	2005
3.	TSUYAMBU GANESH	IT	78.00	F.D	I	APRIL	2005
4.	E.ELANGESEKARAN	ECE	85.18	F.D	I	APRIL	2006
5.	M.M.FATHIMA SAJREENA	CSE	84.00	F.D	I	APRIL	2006
6.	N.NAGARATHNAM	IT	81.00	F.D	I	APRIL	2006
7.	R.S.GOPIKA	CSE	84.75	F.D	I	APRIL	2007
8.	S. BAGAVATHI PERUMAL	ECE	82.82	F.D	I	APRIL	2007
9.	M.SELVI	IT	76.00	F	I	APRIL	2007
10.	M.JOTHI CHITRA	ECE	85.00	F.D	I	APRIL	2008
11.	R.REETA	CSE	85.00	F.D	I	APRIL	2008
12.	S.HEMKIRAN	IT	83.00	F.D	I	APRIL	2008

F.D - First Class with Distinction F - First Class

Professional Career

- I started my career in 2006 at **Comodo** as Software Engineer
- Then joined Infosys and worked for **Boeing** and **Toyota** till 2010
- Joined **KLM** in 2010 for Check-in Kiosk team
- Travelled to Netherlands in 2011 to work for **KLM**
- At **KLM**, played various roles as Techlead, Architect and was part of Innnovation team.
- Introduced Application Modernization and improved developer productivity and reduced lot of costs.
- Developed interests in IoT and Distributed systems, created MQTT Broker
- In 2016, discovered Toon and Joined **Quby** with passion for IoT.
- At **Quby**, Undertook huge challenge in move to the cloud project and microservices platform at various levels as Techlead, Architect and Software Engineer.



Accolades @Boeing



Congratulations

You have received the following Pride@Boeing award!

T Suyambuganesh
Infosys

Achievement Award (100 points)
September 29, 2009

Nominated by: Karen Crabtree

This award is given in appreciation of your contributions to the successful development and implementation of the PlannedAd re-write efforts. I congratulate you and thank you for your efforts.

Accolades @KLM for Best Innovation

Created Functional/Incident Analysis System, which integrated the following services,

- Check-in service
- Dep. Control System(Altea)
- Internet check-in
- Mobile Check-in
- Kiosk Check-in
- Sales Process Service
- Ancillary Service


Benefits:

- Helped functional team
- Faster issue identification
- Reduced MTTR
- Saved 2-4 hours a day per Analyst
- Saved €250,000+ annually

Message

Delete Reply Reply All Forward Attachment Meeting Move Junk Rules Read/Unread Categorize Follow Up

RE: Cassandra Log Extract Tool - Usability Satisfaction Survey

Koops, G - AMSS6 
Keesman, M - AMSS6; Thanga Nadar, SG - SPLXE; Breidel, SSJ - AMSS6; Hilgers, I - AMSS6; Rinsum, J van - AMSS6; Burg, N van den - AMSS6; Longarini, PM - AMSS6
Thursday, 18 October 2012 at 17:05
[Show Details](#)

From: Keesman, M - AMSS6
Sent: Thursday, October 18, 2012 3:01 PM
To: Thanga Nadar, SG - SPLXE; Breidel, SSJ - AMSS6; Hilgers, I - AMSS6; Rinsum, J van - AMSS6; Burg, N van den - AMSS6; Koops, G - AMSS6; Longarini, PM - AMSS6; Duijx, B - AMSS6
Subject: RE: Cassandra Log Extract Tool - Usability Satisfaction Survey

Dear Ganesh,

1. I think the tool is very helpful, YES
2. Average one to two hours a day
3. As from the beginning
4. It would be very helpful if also SPS logs could be extracted from Cassandra as Cassandra will help to save time

~~Best regards, Monique~~

Monique Keesman
Functional Application Manager Internet Checkin (ICI)
Air France KLM IMO Sales (AMS/S6)
Phone +31(0)612589642, grip 91807

From: Thanga Nadar, SG - SPLXE
Sent: donderdag 18 oktober 2012 14:49
To: Breidel, SSJ - AMSS6; Hilgers, I - AMSS6; Keesman, M - AMSS6; Rinsum, J van - AMSS6; Burg, N van den - AMSS6; Koops, G - AMSS6; Longarini, PM - AMSS6; Duijx, B - AMSS6
Subject: Cassandra Log Extract Tool - Usability Satisfaction Survey
Importance: High

Dear All,

This is regarding a survey on the usability satisfaction for using Cassandra Log extracting tool for log analysis.

Can you please spend two of your precious minutes to reply back to this email with short answers for the below questions?

1. Was this tool useful and helpful for log download and analysis? (Yes or No)
2. How many hours did it save you daily?

Accolades @KLM

RE: Cassandra Log Extract Tool - Usability Satisfaction Survey



Hilgers, I - AMSS6 [REDACTED]

Thanga Nadar, SG - SPLXE; Breidel, SSJ - AMSS6; Keesman, M - AMSS6; Rinsum, J van - AMSS6; Burg, N van den - AMSS6; Koops, G - AMSS6; Longarini, PM - AMSSZ; Duijx, BJ - AMSS6
Thursday, 18 October 2012 at 14:50

[Show Details](#)

Grip: +3120 0403971, mobile: +31 612161404

E-mail: [REDACTED]

From: Thanga Nadar, SG - SPLXE

Sent: Thursday, October 18, 2012 2:49 PM

To: Breidel, SSJ - AMSS6; Hilgers, I - AMSS6; Keesman, M - AMSS6; Rinsum, J van - AMSS6; Burg, N van den - AMSS6; Koops, G - AMSS6; Longarini, PM - AMSSZ; Duijx, BJ - AMSS6

Subject: Cassandra Log Extract Tool - Usability Satisfaction Survey

Importance: High

Dear All,

This is regarding a survey on the usability satisfaction for using Cassandra Log extracting tool for log analysis.

Can you please spend two of your precious minutes to reply back to this email with short answers for the below questions?

1. Was this tool useful and helpful for log download and analysis? (Yes)
2. How many hours did it save you daily?[Hilgers, I - SPLXK] 2 – 4 hrs a day
3. How many months you are using this tool?[Hilgers, I - SPLXK] 5 months
4. Your feedback please....[Hilgers, I - SPLXK] The period of 5 months most be decreased with the 1 month Cassandra logfiles were unavailable.

Your reply to this email along with your feedback on this tool will really help us to continue our support to provide you more innovative solutions for better usability and to provide better solutions.

Thank you for your co-operation and support.

Kind regards,

Ganesh

PSS – TCS AM Team

+31-611530117

Accolades @KLM

KLM was using IBM Websphere for deploying Java Enterprise Applications, The license cost was huge part of operating Websphere servers.

In my 10% personal development time, I did a study to find out what are the operational salient features that the Ops team is using and their benefits. From my research study, I came to a understanding that it can be replaced with Tomcat Server and few of the Ops Specific features can be extended in Tomcat using the pattern called Valves.

So I extented Tomcat with few custom valves implementing the missing features and showcased it to the Ops and Dev team that KLM doesn't need IBM Websphere and I proved that the similar set of features and performance can be achieved using tuned Tomcat. KLM saw this as eye opening breakthrough and migrated the apps to Tomcat and deprecated IBM Websphere

My work saved more than €120,000 annually in licensing and support costs

Accolades @TCS

I was part of Technology Expert Group (TEG) in TCS and I was expert in NoSQL solutions.

I was assigned the task of evaluating NoSQL solution for the needs of Hotel Chain Marriott. I studied their requirement and did benchmark various NoSQL solution using a tool called YCSB and observed different parameters and metrics and I created a whitepaper on my evaluation. I suggested to go with Couchbase and apparently, they did.

The screenshot shows the Couchbase website with a navigation bar at the top containing links for Products, Solutions, Developers, Resources, Company, and Pricing. A search icon and 'Sign In' link are also present, along with a 'Try Free' button. The main content area features a large orange banner for a case study titled 'Marriott - Creating a modern customer experience for the digital age'. The banner includes a paragraph about Marriott's goals and Couchbase's role, the Marriott International logo, and decorative starburst graphics. To the right of the banner, two key performance indicators are displayed: '4,000 transactions per second' and '30+ million documents'. Below these, two columns are separated by a vertical line: 'Challenges' on a light gray background and 'Outcomes' on a dark gray background. Each column contains a bulleted list of points.

Couchbase Products Solutions Developers Resources Company Pricing [Q Sign In](#) [Try Free](#)

[< Back to customer page](#)

Marriott - Creating a modern customer experience for the digital age

To maintain its competitive edge in the digital economy, Marriott wanted to create personalized customer experiences, improve online reliability, and release new apps faster. After a technical and architectural evaluation, Marriott chose Couchbase to replace its legacy infrastructure. Couchbase had already proven itself in the industry, and Marriott's solutions architects were impressed by Couchbase's built-in cache, ease and flexibility for moving and adding cluster nodes, and easy disaster recovery.

Marriott INTERNATIONAL

4,000
transactions per second

30+
million documents

Challenges

- On a single central mainframe, an outage could cost millions in lost booking revenue
- Maintaining the reservation system and updating the mainframe was very costly
- Wanted to move to a cloud-forward strategy, use commodity hardware, and lower licensing costs
- Needed to deploy new applications faster and more reliably

Outcomes

- Data replicated to multiple geographic areas optimizes response times and improves availability
- A scalable, flexible cloud-based model reduces application development costs and improves speed
- Developers use SQL for JSON to deliver personalized customer experiences
- Couchbase supports 30 million documents, accessed at 4,000 transactions per second

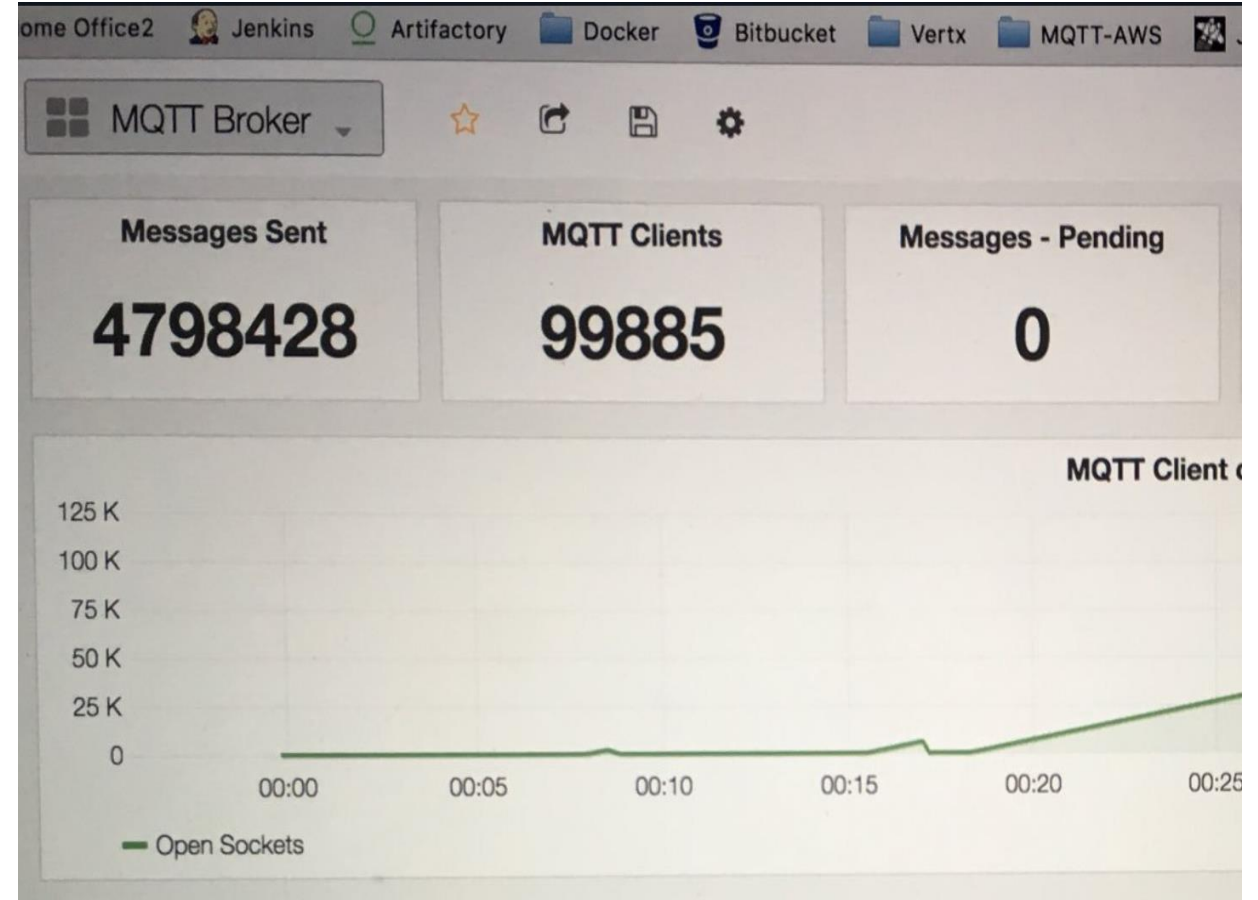
Innovation: Hackathons- IoT and Devices

- Parking lot solution
 - This was created in Hackathon conducted by Schiphol Airport Authorities
 - Demo
 - <https://www.dropbox.com/s/38rtit362deInfc/video%2007-06-15%2013%2048%2002.mov?dl=0>
- Smart Seat concept:
 - Demo
 - https://www.dropbox.com/s/v09vznz715gja4f/Hackathon%20819_x264.mp4?dl=0

Innovation: Created MQTT Broker

I Created MQTT broker as a personal project

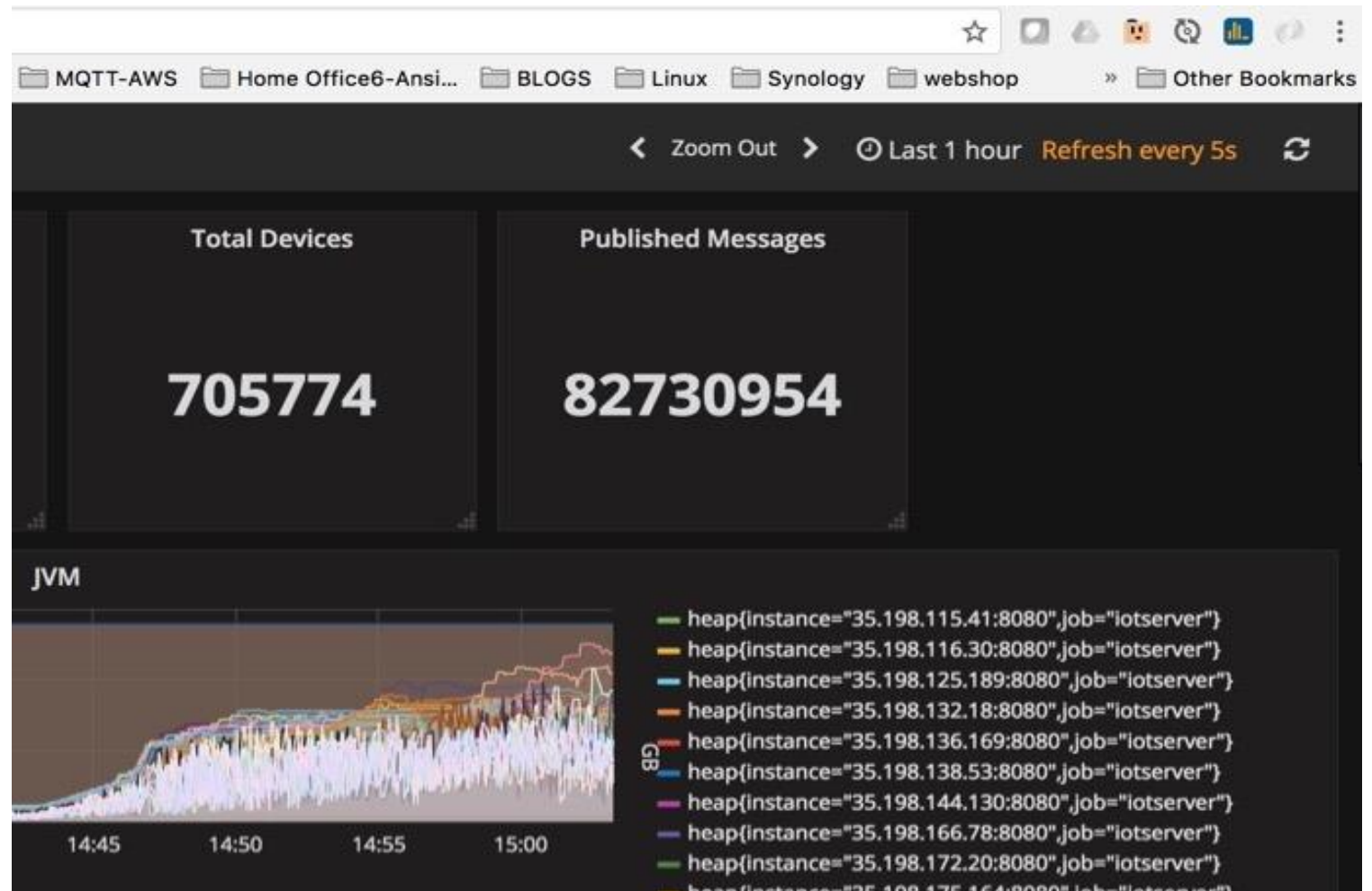
- Read the MQTT spec and did the implementation
- Used VertX in the network layer, which is based on Netty
- Used AKKA in the middleware, which is based on Actor model
- embraced non-blocking async as the programming model
- Akka actor model enables high concurrent processing of messages
- Akka has inbuilt clustering which enabled the broker to be distributed
- Highly scalable to 1million concurrent client devices



MQTT Broker – Highly scalable

705K client devices connected within 15 minutes

82 million messages are processed and saved in Time series database



Skills

- **Architecture/Systems/Protocols:** Microservices, REST, Distributed systems, Docker, MQTT
- **Technology:** J2EE, Web Sockets, SSE, SOA SOAP Web Services, Micro services, REST, AWS (Amazon)
- **Frameworks:** Spring MVC, Spring Data, Spring Batch, Spring Integration, Spring HATEOS, Spring Boot, JPA/Hibernate, Hibernate Search, Thymeleaf template, Struts2
- **Big Data(NoSQL):** Cassandra, Spark, Kafka ([Lambda Arch.](#)), Zookeeper, Bookkeeper
- **Metrics & Tracing:** Codahale, InfluxDB, Grafana, Graylog, Zipkin (Brave)
- **Toolkit\System:** Akka Actors, Spring Cloud Netflix (Hystrix, Eureka, Curator), JHipster (AngularJS)
- **Quality\Testing:** SonarQube, PMD, Findbugs, Checkstyle, JUnit, SOAP UI, Postman, Cucumber
- **Performance Tuning:** JProfiler, JMC (Java Mission Control)
- **Process:** Agile Scrum methodology, JIRA, Confluence, Bamboo, Stash (GIT), Maven, Nexus, Gatling
- **Database:** PostgreSQL, Oracle
- **Utils:** Guava, Apache Commons, Jackson JSON, Jodate, Dozer, MapStruct
- **Cloud:** AWS and GCP, Kubernetes

Feedback – Jaco, Architect

From: Jaco Koster <jaco@qubify.com>

Date: Friday, 29 September 2017 at 13:27

To: Suyambu Ganesh Thanga Nadar <suyambu.nadar@qubify.com>, Nikolas Ortlieb <n.ortlieb@qubify.com>

Subject: Feedback Suyambu Ganesh

Hi Ganesh,

I was happy when you joined the team and that the cooperation with Shekh went so smoothly. Your input in the team has been a large contribution to the stability and success of the team. It was also great to talk with you about your aspirations in India. I will keep an eye on politics in India ;-)

Regards,

Jaco

Ganesh is an easy-going hardworking developer that consistently delivers functionality that works as it was designed. He has introduced a bunch of new technology and increased the performance, stability and maintainability of the applications he has worked on. Ganesh has been instrumental in the success of the API-team and i highly recommend him as lead developer on any project.

When incidents occur, he is not afraid to help out, investigate and solve issues. He has great ideas for the future of Quby and discusses these regularly with architects and the CTO. These ideas are always very well prepared and when asked, has thoughtful answers. He has expressed interest to further develop beyond the role of developer and i think he is ready for a next step.