



Pivotal  
CERTIFIED  
SPRING PROFESSIONAL

# BALAJEE THACHAKKADU MOHAN

Sr. Technical Lead/Product Owner | Bangalore, India

**Active Visas :** USA (B1/B2) until Feb 2024  
CAN (B1) until Dec 2020

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## Career Objective:

Seek to be a pioneer of innovations that add value to life through my relentless pursuit of knowledge.

## Professional Summary:

- Agile Software Designer, **Certified Product Owner® & Scrum Master®** with expertise in **Cloud & Microservices**
- Consistently recognized for superior performance being the division's **youngest Sr. Technical Lead/Tech Lead**
- At 24 years, was the **youngest to present a paper** on DevOps @ Cisco DevCon 2013, Monte Carlo, Monaco
- Architected the **multitenant microservice** solution for Vodafone-Kabel Deutschland, a German video giant
- Architected & developed a **Distributed Oauth2 Cloud Security** strategy for performant microservices using JWTs
- Spearheaded the **paradigm shift** to freely scalable **containerized microservices** using Spring Boot/Cloud
- Pioneered the paradigm of **Reactive Programming** to reduce memory foot print and enhance performance
- Was audited as a Scrum Master for **Agile ISO Certification in Cisco ISO Audit 2015** and evaluated the best in Bangalore, being ISO certified with two positive and no negative comments
- Inspired the culture of generic utilities and frameworks. Authored the widely used, open sourced, Java Json Utility in the division – **"JsonMystique"**
- Renowned for coordinating with multiple client facing teams at **Comcast** Customer Site in **Philadelphia, USA** to successfully deliver projects for MIT, UPenn Universities and MSOs - COX and Shaw
- Developed and presented a cloud ready software solution with a **\$200 million** market in a mere **3 months**. The solution was successfully demoed at the National Cable and Telecommunications Association (**NCTA**) fair in California, USA 2013 and **won customers** with a targeted **\$20 million** market in North America
- Led and guided the team that revamped the entire structure and design of **\$2 million** software at the customer site, with a 1.2 million customer base, making the product seamlessly scalable with a **performance** boost of **65%**
- Spring, RxJava, Cassandra and Couchbase expert** who worked with diverse interface designers and delivery engineers to **single-handedly develop** a demo-able software package from scratch in a mere **10 days**
- Most sought-after to work with diverse teams on **high-priority projects**, either running behind schedule or functioning on aggressive timelines.
- Garnered most awards in the division, with at least one award in every project undertaken till date, including the most coveted Cisco Achievement Program and Video and Collaboration Group (VCG) awards.
- Renowned in the division for creative value-adds having authored R&D News Letters & tech-trailer videos
- Architect, Lead & Administrator of the DevOps infra & CI-CD pipelines for microservices

## Technical Profile:

<b>Languages :</b>	<i>Expert</i> -  Java,  J2EE,  RxJava <i>Novice</i> -  Node JS	
<b>Cloud Technologies :</b>	<b>In Memory Data Stores :</b>	<i>Expertise</i> – Gigaspaces, ReDiS
	<b>NOSQL DBs :</b>	<i>Expertise</i> - Cassandra, CouchBase <i>Novice</i> - Mongo
	<b>Distributed Search :</b>	<i>Novice</i> – Elasticsearch
	<b>DevOps Orchestration :</b>	Kubernetes, Docker, Open Shift, Open Stack
	<b>Config Management :</b>	<i>Expert</i> - Consul
<b>Programming Frameworks :</b>	<i>Expert</i> -  Spring, Spring Boot, Spring Cloud, Cloud Contracts & Swagger	
<b>Web Technologies :</b>	Html5, Angular JS, Twitter-Bootstrap	
<b>Project Management :</b>	Maven, Gradle	
<b>Revision Control and SCM :</b>	GIT (Admin), SubVersion	
<b>Continuous Integration :</b>	Jenkins (Admin), Hudson	

## Project and Career Profile:



- **CISCO Video Technologies India** Private Limited, Bangalore, India, **Headend Line – July'10 to present**  
Cisco Video Technologies is a **\$5 billion** global Videoguard Conditional Access and DRM software solutions division of Cisco Systems for Pay TV industry operating across **3 continents**.
    - **Engineer. Software Engineering IV (Grade 10 - Senior Technical Lead)** - November'16 to present
    - **Engineer. Software Engineering III (Grade 8 - Technical Lead)** - November'14 to October'16
    - **Engineer. Software Engineering II (Grade 6 - Senior Software Engineer)** - November'12 to October'14
    - **Engineer. Software Engineering I (Grade 4 - Software Engineer)** - July'10 to October'12
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### Management Projects

**Projects:** Tachyon, Unified Channel Map, Multi-Tenant UHE (MTU), DVC – CM Microservice, Kingfisher

**Technologies:** Java, RxJava, Gigaspaces, Cassandra, Couchbase, ElasticSearch, OpenStack, Heat, AngularJS

**Project Location:** United States of America (USA), Canada (CAN), Israel (IL), Germany (GER), India (IND)

**Awards:** **10** in total, includes 3 Inspire Award, 2 Individual Excellence and 4 Recognition Awards

#### Highlights:

- Lead & developed the first **fully cloud orchestrated** and wholly **containerized DevOps MicroService SaaS** for US/German cable operators which was promoted by a functional CI-CD pipeline
  - Materialized the first reactive microservice, adhering to all  $\mu$ S tenets with indigenous monitoring
  - Secured ISO certification for Agile Methodologies in 2015 representing as Scrum Master for Tachyon
  - Solely represented UCM, providing extensive support at the COMCAST customer site, USA, interfacing with multiple clients, analyzing their domain and upselling the product by fitting it to their needs.
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### DevOps & Microservices

**Projects:** Unified Channel Map – (UCM), Tachyon, DVC – CM Microservice, Kingfisher

**Technologies:** Java, RxJava, Cassandra, Couchbase, OpenStack, Heat Template, Kubernetes, Dockers

**Customers:** COMCAST, Shaw (USA), Kabel Deutschland (Germany) and TataSky (Ind)

**Awards:** **9** in total, includes VCG, Individual Excellence, Cisco Achievement Program and Recognition Awards

#### Highlights:

- Handled the development and infrastructure of the Pioneer DevOps **cloud orchestration** of the entire UCM **SaaS**, and set up the trend for other components to follow via Tachyon
  - Designed and Implemented an efficient distributed cloud based schema on Cassandra for Tachyon
  - Showcased the highly scalable DevOps prototype of UCM @ Cisco DevCon 2013 in Monaco, France.
  - Presented a topic on Agile Methodologies & DevOps Orchestration to a World Wide Interest Group.
  - Developed and demoed a UCM trailer video aired on an ad hoc channel created on the fly.
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### Development Projects

**Projects:** Unified Channel Map, Tachyon, Megha, Service UI, Catalog Import Adaptors, Multi-Tenant UHE, VBO

**Technologies:** Java, Gigaspaces, Cassandra, Flex, Actionscript, AngularJS, HTML5

**Project Location:** United States of America (USA), Israel (IL), India (IND)

**Indigenous Frameworks:** **12** frameworks and **3** utilities that include Magic Board, Tracelight, Json Mystique, etc.

**Awards:** **17** in total, includes VCG Award, Cisco Achievement Program (CAP), Employee of the Month, etc.

#### Highlights:

- Developed the First Application in the division on **Cloud**, paving way for others to take up the mantle
  - Project was successfully demoed at **NCTA in California, USA** and won many customers and awards
  - Self-Developed DevOps Tool - **Magic Board** was acclaimed as a positive during the **Agile ISO Audit 2015**
  - Revamped the structure, scalability & maintainability of software onsite, boosting performance by 65%.
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### Academic Profile & Certifications:

- Certified Spring 4 Professional<sup>®</sup>, with Spring Source ID SPR012654, offered by Pivotal Academy<sup>®</sup>
  - Certified Scrum Product Owner<sup>®</sup> & Scrum Master<sup>®</sup> with certificant ID 000465824, offered by SCRUM ALLIANCE<sup>®</sup>
  - Graduated as the top ten in **Bachelor of Engineering**, Information Science from BMS College of Engineering, Bangalore, India, Visveswaraiah Technological University, batch of 2010 with an aggregate of **82.9%**
  - Aced the esteemed Graduate Aptitude Test in Engineering (**GATE**) 2010 with a **99.7** national percentile
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