



PRAJWAL GURUMURTHY
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Career Objective:

Contribute in the pursuit of building intelligent machines that simplifies our lives meanwhile get the essence of computing.

Career Highlights:

- An **agile** software engineer with close to 5 years of experience in designing, developing and maintaining **cloud ready enterprise applications** with expertise in **distributed technologies**
- Certified **Machine Learning Engineer** from a non-credit course authorised by **Stanford University** offered through Coursera.
- Developed many **Micro services** for the Cisco Video Cloud Solution.
- Successfully delivered the **TataSKY Video Everywhere Android application** which is used by 5 million subscribers.
- Developed **Behaviour Driven Development tests** and **Level 2 functional and performance tests** into **CI/CD pipelines** which significantly improved the test frameworks and deliveries.
- Co-ordinated the development of micro-service across 2 geographically separated teams in a open source model.
- Developed a domain debugging solution “**Tracelight**” to debug the video domain use cases.
- Embraced the **Blog as You Code** approach to inculcate the habit of writing blogs about the problems that I solve as a way to test my understanding.[[prajwalgurumurthy.github.io](#)]
- Was renowned for **simplicity** in giving many training on distributed technologies and fostering the culture of explaining things in simple words.(#UnJargon)

Technical Profile:

OOP	<u>Expertise</u> : Java, J2EE
Cloud Technologies	<u>Expertise</u> : Cassandra, Elastic, RabbitMQ, Couchbase NGINX, Redis <u>Novice</u> : RxJava
CI-CD	<u>Expertise</u> : Docker, Openstack HEAT Templates, Kubernetes,Jenkins
Heterogeneous Programming	<u>Novice</u> : CUDA , OpenCL
Frameworks	<u>Expertise</u> : Spring, Spring-Cloud, Spring-Boot
Client Application Development	<u>Expertise</u> : Android <u>Novice</u> : Android NDK, Android ADK
Version Control	GIT and SVN
Machine Learning	Regression, Classification, Anomaly Detection, Collaborative filtering, Feed forward Neural Networks , RNN, CNN, Policy Networks
Machine Learning Tools	<u>Novice</u> : TensorFlow, Octave

Projects and Career Profile



Cisco Video Technologies Private India Limited, Bengaluru, Karnataka, India:

Cisco Video Technologies is a global video guard and DRM software solution division under Cloud Solutions of CISCO systems for Pay TV industry operating across 3 continents.

Client Applications

Technologies: Java , Android, Hybrid apps on Android, Upnp , DRM

Customers: TataSky

Highlights:

- Developed several TV Centric Applications using SDP[Service Delivery Platform]
- Developed and managed the delivery of [**TataSKY Video Everywhere Android application.**](#)
- Integrated the DRM framework for Video Everywhere Android application.

Web Services

Technologies: Spring, Cassandra , Elastic, Openstack HOT, RabbitMQ, kubernetes,Couchbase,Docker

Customers: TataSky , Kabel Deushland (Germany), sky, Verizon

Highlights:

- Developed a fully scalable, secure, multi-tenant and operation friendly VOD and content metadata micro service using reactive programming.
- Developed the Tenant Configuration and Job Manager Micro-service for the Video Cloud Solution.
- Developed the entire CICD pipe for microservices using kubernetes from unit to performance test.
- Developed the [**Distributed Dependency Resolution**](#) solution to solve one of the most pertinent domain problem of dependency resolution among entities.
- Developed metadata aggregator which is a distributed way of [**gluing the sliced/diced metadata**](#) where the content metadata can arrive in many pieces in discrete interval of time.
- Developed a domain debugging solution “Tracelight” to debug the domain use cases.

Personal Projects:

The far-flung applications of Machine Learning got me to tinker with the beast.

- Regression[Linear regression]: **Food Truck Profit Prediction**
- Classification [SVM , NN , Logistic]: **University Admission Classification , Digit Classification, Spam Classification**
- Clustering[K-Means]: **Image Compression**
- Dimensionality Reduction [PCA] : **Dimensionality reduction on Face images**
- Collaborative Filtering Models [Recommendation]: **Movies Recommendation**
- Sequence Learning[RNN] : **“Hello World” next char prediction**
- Policy Networks[Reinforcement Learning]: Learn policy to play **PingPong Game in openAI Gym**

Academic Profile & Certifications

- Graduated in Bachelor of Engineering in Computer Science from Sri Jayachamarajendra College of Engineering, Mysore. [2012] with an aggregate of 9.1 CGPA
- Completed Certification of [**Machine Learning by Andrew NG**](#) from [**StanfordOnline**](#) with 95.7%.