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Summary

I have 11+ years of experience in software development. I work mainly in Data Science projects to build AI models for multiple client and internal products. I'm leading a data science team to build and deploy ML models for different Client projects in NLP and Deep Learning space.

Also, I have extensive hands on experience in Big-data pipeline development on Spark/Hadoop; micro service, web app development, end-to-end SOA infrastructure management. In the early part of my career, I have worked with teams to build and manage web based products and services and ensure the DevOps practices are met.

Education

B-Tech Computer Science and Engineering from NSS Engineering College, Calicut University, Kerala, India – 2005-2009

Skills

Data Science	<ul style="list-style-type: none">Delivered multiple ML/DL models into production, handled classification, clustering, object detection, NER, ANN, models extensively.Make use of big-data tools to scale the data pipelines.Manage end-to-end Machine learning pipeline and infrastructure. <p>Tools: Python, Pyspark, Scala, Keras, Tensorflow, Pytorch, Apache Spark, Hadoop, s3.</p>
Web App Development	<ul style="list-style-type: none">Restful API developmentWorked with different parts of SOA infrastructure, API gateway, Micro-service development, Service Discovery etc.Worked on multiple domain specific and hobby projects in Scala, Go, C/C++, C# <p>Tools: Python, Nodejs, J2EE, C++, Golang, Django, Flask, Express.js, SparkJava, apache camel.</p>
DevOps	<p>Managed end-to-end build Pipelines on Docker / VM based / Conventional platforms.</p> <ul style="list-style-type: none">Ensure projects are Cloud Native frontally.Build and manage Infrastructure in cost effective manner.Pro actively ensure security of the platformExtensively handled AWS/GCP/Azure platforms and different services like EC2, VPC, S3, ELB, Lambdas, IoT, and Security. <p>Tools: AWS, GCP, K8S, Swarm, Jenkins, Docker, Ansible, Bash, Xen, KVM.</p>

Experience

Architect, Imaginea Technologies Ltd., Chennai – Oct-2019-Present

Managing end-to-end Data Science based projects also finding and working on opportunities to apply the Machine Learning models to real life problems.

Principal Engineer, Imaginea Technologies Ltd., Chennai – Apr-2017-Sept-2019

I'm Leading a Data science team to build and deliver AI models for client projects, we also work closely with Lab projects to solve problems like Image classification, Text classification, NER, etc. I'm involved with setting the best DevOps practices via standard process setting and conducting multiple sessions and workshops to upskill the Software Engineers.

Sr Development Engineer, Imaginea Technologies Inc., Chennai, Dec-2014-Mar-2017

Worked in SOA platforms to build Restful microservices, orchestrate micro services using API Gateway. Also, I developed a microservice framework based on spackjava.

Technical Lead, Mquotient Solutions Ltd., Pune – Apr-2013-Dec-2014

I was leading the Charging gateway project development and delivery, and I was part of the core team which built the in-house OCR/ICR application.

Software Engineer, Mquotient Solutions Ltd., Pune – Dec-2011- Mar-2013

I was part of the core 3 member team to built the in-house web based OCR/ICR product named Glyphx. The platform was developed In Python, C++ and C#.

Software Engineer, Sparksupport Pvt ltd, Ernakulam – Oct-2009 - Nov-2011

I started my professional carrier with Linux Server Administration, Automation in Bash, Python and Perl. And later I was leading a Python team and we worked on different Django based projects. Also I was involved with UI developments and design.

Projects

ML Model Developments Imaginea Imaginea Technologies Inc, Chennai [2020 - Present]

Leading multiple internal and Open-source ([Pic2Card](#) / [Adaptivecards](#)) projects to bring the Machine Learning models into real life use cases.

RPX, Imaginea Technologies Inc, Chennai [2019 - 2020]

Leading Data science team to develop multiple NLP models for document clustering, text classification and NER. We delivered multiple models into production, our quick iteration, and data driven decision making helped us to push the challenges in this space. We scaled the pipelines to support the scale this client demands using Spark and AWS.

Quantiplay, Imaginea Technologies Inc, Chennai [2017 - 2018]

AI based Anti-money laundering service. I was managing the entire infrastructure and a build pipeline of ML based product. Developed multiple independent pipelines using Openshift, Plain Docker, Non-docker based to support the different target environments. Most of the aspects are automated and follow build once and deploy many principles. Release management and On Premise installers are developed on Ansible. The system is secured at an infrastructure level by using full TLS based communication, and it was transparent to applications.

Content Acquisition Platform, Imaginea Technologies Inc, Chennai [2016 - 2017]

This micro-service orchestrates the crawling jobs across 1000s of machines and ensures all the jobs are finished within the given time so that upstream services get the response on time. The technology of asynchronous crawling was developed by leveraging all the Node.js async execution model and web-socket based low latency connection. I was responsible to make Node.js POC into a production ready service, we were faced multiple challenges when scaling the Node.js services.

API Server, Imaginea Technologies Inc, Chennai [2015 - 2016]

I was part of this team to build the flexible API server using the Apache camel. Camel's Enterprise Integration patterns are well suited for our needs to orchestrate the backend micro-services using simple J2EE modules, that can be easily changeable based on the business goals.

Micro Service framework, Imaginea Technologies Inc, Chennai [2015 - 2016]

The main goal of developing this micro-service framework was to reduce the friction in bringing new micro-service into the SOA environment. This custom micro framework includes all the batteries required for our SOA environment; like logging, error reporting, DI etc. This framework helps the developer to easily write their service logic without worrying about the integration issues.

Analytics Application, Imaginea Technologies Inc, Chennai [2015]

This project is to develop standard Restful analytic APIs. we leveraged the Django rest framework library to write our Restful APIs.

Charging Gateway Solutions, Mquotient Solutions Ltd, Pune [2012 - 2014]

Call Data Record (CDR) processing system written in C and Python. We developed this For BSNL, and I was leading this project and worked on end-to-end responsibilities. I managed the deployments at client data center and worked with the client directly to make it into production

Glyphx, Mquotient Solutions Ltd, Pune [2011 - 2014]

In house OCR/ICR product to scan handwritten forms. We build the entire pipeline on Python web based platform, except for the printer management part, which was in C#. I was part of the core team and worked on different parts of this product.

Clinic Management App, Sparksupport, Kochin [2010 - 2011]

One of the Django based projects, I was responsible to lead this work and deliver. We were making use of real-time web interaction using Python twisted async framework for better UI experience.

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