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Summary

I have 9 years of experience in software development. I'm specialised in programming, Machine Learning and Devops. I work mainly in Python, J2EE, Node.js and also worked with domain specific and hobby projects in Golang and C++. I have keen interests in working with problems related to Machine Learning, Code Optimisation, networking, Devops and distributed systems.

I have extensive hands on experience in managing end-to-end SOA infrastructure, and developed custom micro web framework based on sparkJava to create micro-services. I have been actively leading the internal projects based on Deep learning and NLP which solve the problems in Image, Text classification, Entity recognition etc. using Deep learning methods.

Education

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

Skills

Web App Development	<ul style="list-style-type: none">• Restful API development• Worked with different parts of SOA infrastructure, API gateway, Micro-service development• Done multiple domain specific and hobby projects in Go, C/ C++, C# <p>Tools: Python, Nodejs, J2EE, C++, Golang, Django, Flask, Express.js, SparkJava, apache camel.</p>
Machine Learning	<ul style="list-style-type: none">• Spam detection for Image uploading platform.• Sentiment analysis.• NER identification on domain specific dataset.• Managing end-to-end Machine learning pipeline and infrastructure. <p>Tools: Python, Keras, Tensorflow, Apache Spark.</p>
Devops	<p>Managing end-to-end build Pipelines on Docker, Traditional or VM based platform.</p> <ul style="list-style-type: none">• Build and manage Infrastructure in cost effective manner.• Extensively handled AWS/Azure platforms and different services like EC2, VPC, S3, ELB, Lambdas, IoT and Security. <p>Tools: AWS, Jenkins, Docker, Openshift/Kubernetes, Ansible, Bash, Xen, KVM.</p>

Experience

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

I have been working on different client projects, and also doing Imaginea Labs projects. The Labs projects we solve problems like Image classification, Text classification, NER etc. I was leading multiple Labs projects which are related to deep learning problems.

Sr Development Engineer, Imaginea Technologies Inc., Chennai -- Dec-2014-Mar-2017
Worked in SOA platforms to build Restful micro-services, orchestrate micro services using API Gateway. Also I developed a micro service 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 core team which built the in-house OCR/ICR application.

Software Engineer, Mquotient Solutions Ltd., Pune – Dec-2011- Mar-2013
I was part of 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

Quantiplay, Imaginea Technologies Inc, Chennai

AI based Anti-money laundering service. I was managing the entire infrastructure and 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 follows build once run many principle. Release management and On Premise installers are developed on Ansible. The system is secured at infrastructure level by using full TLS based communication, and it was transparent to applications.

Content Acquisition Micro service, Imaginea Technologies Inc, Chennai

This microservice orchestrate the crawling jobs across 1000s of machines and ensures all the jobs are finishes with in the given time so that upstream services gets the response on time. The technology of asynchronous crawling was developed by leveraging all the Nodejs async execution model and websocket based low latency connection. I was responsible to make Node.js POC a production ready service, we were faced multiple challenges when scaling the Node.js services.

API Server, Imaginea Technologies Inc, Chennai

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

Main goal of developing this microservice framework was 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

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

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

Glyphx, Mquotient Solutions Ltd, Pune

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

Clinic Management App, Sparksupport, Kochin

One of the Django based project, I was responsible to lead this work and deliver. We were making use of real-time web using Python twitter framework for better UI interactions.

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