

Yagzan Manjunaath T K

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SUMMARY

- A Passionate tech enthusiast who likes to simplify complex things in life with code.
- A full-stack developer with ample experience in developing enterprise-grade applications.
- I have worked with document conversion and OCR extraction applications composed of multiple Orchestrators and Microservices components deployed in the AWS ecosystem.

EXPERIENCE

Programmer Analyst, Cognizant Technology Solutions

Jun 2019 - Present

- Developed a Document ingestion module that uses Microsoft Graph API and developed a custom authentication module that uses OAuth 2.0
- Suggested and redesigned the Spring boot modules with Event-driven architecture (Message Queue based) and improved the performance by multifold (5x-7x) by introducing Multithreading.
- Migrated existing legacy batch application into Microservice and introduced streams-based data manipulations, which increased performance by 6x along with 85% test coverage.
- Created compact multilevel DockerFile for all Python and Java components. Introduced Reusable base Images, reducing the size of the final docker image.
- Developed Django based microservice to consume a third-party API (Nuance OCR) with Unit test coverage and Scalability testing
- Introduced distributed caching of frequently used data among various containerized instances using Amazon ElastiCache for Redis.
- Introduced various best practices and java batch jobs to reduce manual intervention, Code maintenance, and dependency management for seamless and faster releases.
- Created an automated Bug and issue tracker system using Power automate flow and SharePoint lists
- Frequent participant in Outreach Activities at Cognizant – CyberPeaceCorps sessions, CS teaching sessions for the underprivileged.

Network Engineer Intern, SLN Technologies

Nov 2017 – Dec 2017

- Created Network topology designs using Cisco ConceptDraw and implemented the same using switches and routers.
- Designed an Intrusion detection system by creating custom Snort rules and implemented the same for a client's organization

PROJECT EXPERIENCE

Song recommender

A mood-based multi-class neural network classifier application in Python uses Spotify API to classify songs in a playlist. A user can input his current mood, and the application would suggest an appropriate song.

Forecaster Application

A MERN stack application for publishing weather forecasts to subscribers' emails. The app is hosted in Heroku and a private domain website.

GeoFencer Application

An android application written in Java sends a push notification and sounds an alarm to the user on entering a geographical location.

Cython wrapper for Nuance OCR

A lightweight wrapper for Kofak Nuance OCR's C++ API created using Cython, which supported all rudimentary extraction features.

ChatBot application using Wit.ai

A simple customer support ChatBot application that used Natural language processing with Node.js as backend. The chatbot used Wit.ai as its NLP engine.

Linux From Scratch System

A lightweight Linux system based on the book, Linux from scratch with a Gentoo distro as a base.

EDUCATION EXPERIENCE

Bachelors in Engineering, Computer Science and Engineering
St Joseph's College of Engineering (Affiliated to Anna University)
Chennai

Jun 2015 - Apr 2019

CGPA: 8.18/10

Final year Thesis

Image Encryption using Combined Multiplicative Recursive key generation

Created a key generation module that used the Powers of 2-decomposition method to generate random numbers. This set of random numbers can be used as a seed for encryption algorithms such as AES and would enhance the security of the encrypted image while also not affecting the speed of conversion. The algorithm is also easy to implement using shift operations and can be added to Imaging equipment, and also has good structural properties.

Academic Activities

- **Student Chairman - National Level technical symposium**
 - Coordinated multiple teams at the National level technical symposium overseeing all the events.
 - Organized events at Symposiums for the Computer Science department in the Tech Fest at St Joseph's College of Engineering.
 - Created a hybrid Mobile web application using Cordova for Attendees to schedule and manage entry to various events.
- **Organizer- Coding Events and Competitions**
 - Curated and judged various coding competitions along with the Faculty in the Department of CSE.
 - Helped Juniors by organizing Tech workshops and Coding competitions through Google Student Club.
- **Contributions to Hackathons**
 - Finalist in the National level Smart-India Hackathon organized by Ministry of Water Resources, River Development and Ganga Rejuvenation, Government of India.
 - Selected teams on behalf of St. Joseph's College of Engineering and mentored teams that won second place in National level hackathons
- **Teaching assistantships**
 - Organized coding boot camps and placement training programs, teaching programming and development for college juniors.
 - Gave Guest lectures on topics such as enterprise application development and DevOps practices.
 - Conducted Cyber security awareness sessions for juniors as part of the Alumni engagement program.
- **Other activities**
 - Published several articles in College newsletters and have continued to publish tech articles in medium.com
 - Published multiple projects as maven and npm packages.

Certifications and Courses

- **Machine Learning** – Stanford University – Coursera
- **Web development with React** – University of Hongkong – Coursera
- **Android App development** – Computer Society of India
- **Business English Certification** – Level C1 – Cambridge English assessment

SKILLS

Programming Languages: Java, Python, Javascript (ES6), C++, C

Web Technologies: HTML5, CSS3, Bootstrap, React

Web Frameworks: Spring Boot, Spring Data, Spring Integration, Django

Cloud technologies: AWS ECS, AWS ECR, ELK, Lambda, ElastiCache

Database: MSSQL, MongoDB, CouchDB

Awards

Cognizant Cheers

Cognizant Technology Solutions
(2020,2021)