

Praveen Kumar Bommali

Lead Engineer-MSS

Accomplished Lead Engineer with over 8 years of extensive hands-on experience as a core developer. Demonstrated excellence in delivering impactful software applications across diverse industries, encompassing Content Management, Automotive, Telecom, and Banking. Renowned for cultivating collaborative teamwork and maintaining a consistent record of project success. Possessing proficiency in a wide spectrum of technologies, including Java, Spring Boot, Python, Machine Learning, Data Science, and System Architecture. Currently, actively contributing expertise to the innovative projects at McLaren Strategic Solutions. Actively seeking an exciting opportunity where my wealth of experience and multidisciplinary proficiency can significantly elevate the ongoing success of your projects or organization.



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SKILLS

Core Java & OOPs Concepts Data Structures and Algorithms Design Patterns Docker & Containerisation
Hibernate Kubernetes Micro services PostgreSQL Python Scripting REST Services Springboot
Statistics System Design

TECHNICAL SKILLS

API Programming	RESTful API Design, GraphQL, Microservices, Authentication & Authorization, Webhooks, Messaging APIs, Hasura, VisualVm, JMeter, postman	Cloud Services	Microsoft Azure, AWS S3, Heroku
Database Skills	MySQL, Redis, PostgreSQL, MongoDB, Cassandra	DevOps	Git, Jenkins, JFrog, Open shift, Docker, Kubernetes, Github Actions, Helm
Programming Skills	Data Structures, Java (8,11,17 version), Python, Spring boot, Hibernate, Design Patterns, API Development, Multi-threading, Microservices	Security Services	IAM, JWT, OAuth, OWASP, Okta, Auth0, WSO2

WORK EXPERIENCE

Lead Engineer

McLaren Strategic Solutions

04/2022 - Present

Client: JPMorgan Chase & Co

India

Achievements/Tasks

- I gained valuable experience within the Banking Domain by strategically redesigning existing architecture flows. I successfully transitioned from proprietary software to an in-house development approach, contributing to the accomplishment of multiple major releases, including the notable IPDL.

Principal Software Engineer

Mercedes-Benz Research & Development India

02/2021 - Present

Working on Automobile engineering

India, Germany

Achievements/Tasks

- I addressed issues in the car development life cycle, played a key role in defining centralized dashboards for various cockpits, and led the Erprobungs cockpits, ensuring successful deliveries.

WORK EXPERIENCE

Senior Software Engineer

Mercedes-Benz Research & Development India

09/2020 - 02/2021

India, Germany

Achievements/Tasks

- Established a centralized data-driven flow by integrating various legacy systems, resulting in a streamlined process.
- Designed and implemented a knowledge base using MediaWiki to articulate domain knowledge through a semantic view representation.

Senior Software Engineer

BT Group

05/2017 - 01/2019

India, UK

Worked on telecom domain, majorly on 5G technology

Achievements/Tasks

- Developed core parsers specifically designed for parsing 5G YANG files.
- Engaged in release activities for the SRIMS project and actively participated in the migration activities related to 5G.

Software Developer

Aricent Technologies

12/2014 - 04/2017

India

Skilled in Content Management Systems designed to facilitate video-on-demand services for end-users.

PROJECTS

Trade Conversion Engine (08/2022 - Present)

- The Trade Conversion Engine (TCE) project endeavors to establish a seamless connection between the Trade Processing System and vendor clients, facilitating the successful execution of trade transactions.
- This initiative primarily focuses on supporting business communication through the utilization of EDI and SWIFT message formats. Using TCE to replace the existing proprietary tool, WebMethod, ensuring enhanced efficiency and effectiveness in trade-related processes.
- Roles&Responsibilities:
- Participated in the analysis and replacement of the current proprietary tool, substituting it with a robust technology stack and optimizing the processing of EDI and SWIFT messages.
- Executed the implementation of Groovy parsers to proficiently read diverse business file formats, ensuring the successful execution of trade processing.

Falcon (04/2022 - Present)

- In the Banking Trade Finance domain, where transactions primarily involve importers and exporters, there was a need for an enhanced system to manage a higher volume of documentation, including invoices, receipts, and scanned documents.
- The challenge was to accurately map the fields across these diverse documents to streamline critical events within the portal. In order to tackle this, introduced the icr-ocr machine learning models.
- Roles and Responsibilities
- I took a pivotal role in the implementation and fine-tuning of the models, utilizing advanced machine learning techniques.
- Additionally, I played a crucial part in the successful integration of these models into the existing trade processing system and managed the smooth release of the system.

Cockpits - CDP Migration (01/2021 - Present)

- With consideration of cost effective solution, made changes to the existing architecture by including the CDP(Common Data platform) and whole cockpit services also has to be migrate accordingly
- As part of this CDP migration , I was actively involved in architectural decision changes and handled Cockpit project migration activity
- Roles & Responsibilities:
- Leading the overall migration process and involved in the development activities
- Colloborated with multiple teams and streamlined the migration activities and timelines

DAVIS (Data Visualization Platform) (11/2020 - Present)

- DAVIS provides virtual car or part simulation, which will provide facility for BTVs and RD Engineer to view the real time streaming using VRED, hololight and AR-VR devices
- Roles&Responsibilities:
- Defined the streaming solution to read the entire car 3D visualisation data and provide the seems experience to end users
- Defined the HLD and LLD design and defined the product specification and standards
- Involved in the Product promotion activities as a technical adviser and supported the users and educated the team on product improvements lines
- Involved in the IAM configuration and defined the Authorisation code flow and enabled SSO(Single sign-on)

PROJECTS

Erprobungs Cockpit (05/2020 - Present)

- Erprobungs Cockpit majorly simplifies Test Engineers car testing process by introducing the aggregating the information from all legacy systems and creating the dashboards. Provided the Digital snapshot and AR&VR based solutions to the user and improved the overall testing process.
- Roles & Responsibilities:
- involved in API requirements and development activities
- Developed Python and Java based Microservices and specified the multi threaded features
- As part of this connecting with multi testing systems and centralise the data and generate individual widgets
- Defined the project architecture and implemented the reusable components
- Developed the domain based Microservices and enabled the CI&CD pipeline
- Involved in the IAM configuration and defined the Authorisation code flow and enabled SSO(Single sign-on)

DataLayer Portal (01/2019 - 12/2019)

- Developed the replica of Wikipedia/Confluence for centralising the domain data and implemented the semantic media wiki to enable the relation between triples.
- Defined the generic approach for reading any kind of text data and convert into triplet format.
- Able to establish the relationship between domain specific data objects
- Roles&Responsibilities:
- Contributed to the open source media wiki development.
- Explored the media wiki tool and redefined the solution according to the project requirements.
- Developed the python based wrappers to pipeline the domain data and defined triplet format structured data
- Defined the Kafka streaming services
- Involved in the IAM configuration and defined the Authorisation code flow and enabled SSO(Single sign-on)

NG Plan & Build (05/2017 - 01/2019)

- As part of Next Generation Plan & Build project, targeted tremendous improvement following two aspects. Introducing new device by providing Yang specifications. Networking planning defined using Yaml specifications.Understanding and Implementation of Yang parser and generating the template structure.
- Roles & Responsibilities:
- Understanding and Implementation of Yang parser and generating the template structure.
- Implementation of Yaml Parser and Content Validation
- Development of generic RT Engine to drive network planning dynamically.
- Involved in development of TOSCA based design flow to handle network planning. Distributing tiny independent application using microservices

Enhanced Content Management System(eCMS) (06/2015 - 04/2017)

- ECMS application provides the solution for on-demand video service. It is an enterprise-wide, end-to-end system designed to manage the ingest and delivery of assets for on-demand business needs through the asset distribution interface (ADI) specification. By transforming and distributing assets to multiple sites based on user-defined rules and workflows, the enhanced system can deliver all types of assets to any subscriber platform PC, TV or mobile. Plus, with a user- friendly, GUI-based workflow interface (User defined), it allows operators to efficiently manage and deliver content from integrated drop boxes to their subscriber base.
- Roles & Responsibilities:
- Implementation of Long Polling Threads to keep poll for new tasks.
- Involved in RestAPI implementation using JAX-RS RestEasyClientBuilder supporting synchronous and asynchronous response and access-token management.
- Involved in development of Ingest Module to monitor Remote Dropbox for Assets.
- End-to-end deployment in docker containers and taking care the client demos.

Security Analytics (01/2015 - 05/2015)

- As part of Security Analytics, finding the ID (Intrusion Detection) on real time PCAP data and applying the machine learning algorithms on that to figure out rate of intrusion, DOS. As part this, Initially collected the real time network traffic data from PCAP using Kafka channels. Achieved knowledge on database designing and fetching.
- Applying parsing and aggregation on real data and stored into Cassandra database. On top of enriched data, need to apply Spark Mlib algorithm and find out the threat level on traffic. Using Dashboard to depict the vulnerabilities.
- Roles & Responsibilities:
- Involved in analysis and finding the PCAP data.
- Developed the pipeline for storing the enriched PCAP data into Cassandra store
- Involved in the Dashboard depiction of real time stats

EDUCATION

Master of Engineering

Birla Institute of Technology and Science, Pilani

01/2019 - 01/2021

Courses

- DataScience and Engineering

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LANGUAGES

English
Full Professional Proficiency

Hindi
Full Professional Proficiency

Telugu
Full Professional Proficiency