

YASHASVI KANCHUGANTLA

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EDUCATION

- **San Jose State University University** California, US
Master of Science, Data Analytics, GPA: 3.9/4 Jan 2024 - Jan 2026
Coursework: Distributed Systems, Machine Learning, Database Systems
- **Indian Institute of Technology, Kharagpur** IIT Kharagpur, India
BTech in Computer Science and Engineering Jul 2015 - May 2019
Micro Specialization in Intelligent Learning Systems Design; GPA: 8.03/10

SKILLS SUMMARY

- **Languages:** C, C++, Ruby, Python, Java, Golang
- **Tools:** Kubernetes, Docker, Kafka, CUDA
- **Frameworks & Others:** MySQL, PostgreSQL, MongoDB, Git, Unix, AngularJS, OOPS
- **Certifications:** NVIDIA's Accelerated Computing in CUDA C/C++

WORK EXPERIENCE

- **Motive Technology Inc, India - Backend Engineer** Dec, 2021 - Nov, 2023
 - Owned Alerting Modules for Tire Pressure detection and Fault codes from design to production deployment. — *Complete microservice implementation in **Golang**, maintenance, enhancements and **Kubernetes** deployment.*
 - Implemented pipeline Fault codes detection and vehicle maintenance from IoT events using Kafka messenger
 - Contributed to software for inspecting vehicles and their tracking. Implemented daily reports reviewing, Alerting modules through the SDLC — *Technical design and implementation, Optimization and Rollout captaincy.*
 - Brought down p95 API response times for the above services from existing **5min to 2.3sec** by spearheading **table partitioning** and by de-coupling PostgreSQL tables and using several **query optimization techniques** on codebase.
 - Optimized endpoints on the Vehicle inspection Reports interface for admins, using DB optimizations on tables- indices, partitioning, reducing in-memory utilization. P95 API response times have been reduced from 5min to <5sec
- **Visa Inc, Bangalore - Software Engineer** July, 2019 - Feb, 2021
 - Among the 6 chosen individual contributors on a product to merge revenue billing platforms of 5 continents to a **Global revenue billing platform**(Global Operating Certificates) for **33% of Visa's revenue(22Bn\$)**.
 - Designed an encoding of about 300,000 different types of cards worldwide to a standard metric classification to make billing hassle-free.
 - Implemented modules to identify variations and validations of all the **300k card metrics YoY, QoQ and MoM** entered by banks. Technologies: Java-Spring Boot, AngularJS, and MySQL
- **Schlumberger India Pvt Ltd - Engineering Intern** May, 2018 - July, 2018
 - Overhauled part of business software to Microservices, as proof of concept, to migrate the whole architecture from Monolithic.
 - Technology used: Java, Spring Framework — Kubernetes deployment to demonstrate agility of cloud development.
 - The project led to ideation of converting several other data intensive legacy softwares to Microservices.

RESEARCH AND ACADEMIC PROJECTS

- **Wikinews Insights: Real-time Correlation and Summarization of Pageviews and News Headlines** Fall 2024
Big Data & Natural Language Processing
 - Developed a real-time data pipeline using Apache Kafka and Spark, processing over 238 million daily Wikipedia pageviews across 337 languages, resulting in a significant improvement in trend detection speed
 - Optimized data processing efficiency by implementing Bloom Filters and Reservoir Sampling, reducing data storage requirements. Implemented DGIM, decaying windows for understanding the trending pages
 - Implemented advanced NLP techniques for news summarization, achieving a 95% accuracy rate in generating concise, informative summaries of correlated Wikipedia articles and news stories
- **Analysis of Electric Vehicles and Charging Infrastructure** Spring 2024
Database Systems for Analytics
 - Designed and **implemented a data pipeline to incorporate ETL and perform data warehousing** through Google Cloud Platform for efficient analysis of electric vehicle adoption trends.
 - Utilized a variety of database technologies including MySQL for relational data, **Neo4j and KuzuDB for graph-based analysis of charging station networks**, and BigQuery for large-scale data processing and querying.
 - Created interactive data visualizations and dashboards using Tableau, directly from BigQuery for real-time data analysis, and employed statistical techniques to derive metrics like "Vehicle Load" for assessing charging infrastructure adequacy.

PUBLICATIONS (SELECTED)

- **Nangi**, et al., “OffVid: A System for Linking Off-Topic Concepts to Topically Relevant Video Lecture Segments”, ICALT-2019 [Paper]

AWARDS AND ACHIEVEMENTS

- Secured an All India Rank - 769 in JEE-ADVANCED 2015
- **Extra-Academic**: Instructional Student Grader for Math Methods for Analytics - topics include PCA, Linear Regression