Divyanshu Tyagi

Senior Software Engineer

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WORK EXPERIENCE

Momspresso, Gurgaon, India   May 2022 – June 2023
Senior Software Engineer

- Spearheaded the migration from PHP to Golang, to modernize the codebase for scalability , resulting in reduction in average response time from 500 ms to 250 ms.
- Architected real-time data pipelines using Kafka, Airflow, Python, Flask, Elasticsearch for efficient data ingestion and analysis.
- Revamped user feed and search features, leveraging Elasticsearch; achieved a 50% reduction in page load time.
- Mentored junior developers in software development best practices and design principles.

DiligenceVault New York, NY (remote)   April 2020 – May 2022
Software Engineer

- Architected a high-performance 3-node Elasticsearch cluster, handling over 60k DAU and 10k RPS with 100ms response times, resulting in a substantial 30% reduction in SQL read load.
- Led the development of a semantic search engine powered by Elasticsearch and Tensorflow, boosting search accuracy by 80%,revolutionizing the speed and precision of due diligence efforts.
- Engineered a cutting-edge automation solution utilizing TensorFlow and Elasticsearch by streamlining the identification of duplicate and semantically similar answers; delivered significant time savings for clients and enhanced efficiency by 50%.
- Optimized SQL procedures analyzing query execution plan, reducing 90% of execution time, boosting platform performance.
- Implemented key Open API features, automating 40% of due diligence workflows and streamlining processes for asset managers and investment firms.
- Led the implementation of automated SQL to Elasticsearch synchronization pipelines, driving a significant 2x improvement in data synchronization efficiency; eliminating data latency, fueling business expansion.
- Transformed the company's internal operations by Vue.js-based web application that reduced user access control errors by 75%.

FarmGuide, Gurgaon, India   March 2016 – March 2020
Software Engineer

- Played a pivotal role in the development of the PMFBY platform, utilizing microservices architecture and agile methodologies using Node.js.
- Developed and deployed a highly scalable data retrieval and write-through cache system leveraging Elasticsearch, resulting in 60% reduction in query processing time, enabling swift insurance purchases for a user base of 216 million individuals.
- Devised SQL procedures that scaled to handle a million of daily transactions, ensuring data integrity and financial security.

Frankly.me, Noida, India   June 2015 – January 2016

Software Engineer

- Designed and executed a comprehensive admin dashboard with advanced monitoring and filtering capabilities, resulting in a 25% increase in efficiency for the Quality Team.
- Created Elasticsearch-based recommendation system to track and store user preferences, resulting in a 30% increase in click-through rates.

Droid Solutions, Noida, India   August 2014 – June 2015

Python Developer

- Crafted robust Python back-end APIs powering diverse mobile apps, including utility tools for iOS and Android, and engaging children's games, integrating seamlessly with MySQL and MongoDB.

10Times.com, Noida, India   December 2013 – July 2014

Data Executive

- Collaborated with cross-functional teams to establish data quality standards, rectifying misinformation, elevating the platform's credibility and increasing QA Efficiency by 80%.

EDUCATION

Guru Gobind Singh Indraprastha University (GGSIPU), New Delhi, India   August 2010 – August 2013

Bachelor of Computer Applications

SKILLS

Languages: Python, Node.js, Golang
Project Management: Database Optimisation, Process Automation, CI/CD, Deployment, Mentorship
Tools & Frameworks: Flask, ElasticSearch, Kafka, Celery, Airflow, Jenkins, Github.
Databases: SQL, MySQL, MongoDB, Postgresql, Redis
System Architecture: Distributed Systems,REST APIs, Microservices, Monolith, Data Pipelines, System Design