

ALOK TIWARI | [LinkedIn](#)

Software Developer

Contact No: 7607187922

Email: alokt1667@gmail.com

A passionate Software Engineer with solid foundation in Computer Science and extensive hands-on experience in development, with proficiency in diverse programming languages and a knack for problem-solving, I will be a valuable asset to a team with my technical expertise, creativity and my interest in emerging technologies. I excel in translating complex requirements into scalable and user-friendly applications.

Professional Experience

Transunion - Software Developer [Sep 2022 ...]

Spearheaded the development of APIs for data import/export, enabling users to download, modify, and update report metrics using BigQuery, Google Cloud Storage and Cloud Functions.

Designed and executed efficient BigQuery queries and UDFs to process and analyze large datasets resulting in faster analytics for clients. Boosted UI performance by **40%**, implementing a JavaScript-based solution to handle computations in-browser for large data scenarios. Integrated messaging systems like RabbitMQ, Pub/Sub, and Kafka to create a unified messaging framework.

Designed and developed comprehensive insights reports, incorporating features such as comparison to other saved reports and pagination for larger data sets, enhancing data analysis efficiency and user experience.

Debugged, tested, and resolved critical product issues, contributing to product scalability and client satisfaction.

Nagarro Softwares pvt ltd - Associate Software Developer [March 2022 –Sep 2022]

Developed and maintained full-stack applications using Angular, Java 8, Spring Boot, Hibernate, and SQL.

Designed REST APIs and implemented efficient backend logic to support seamless user interactions.

ML and Data Science Intern - Grroom Fashion Company [April 2021-Nov2021]

Conducted machine learning research, including web scraping, model training, and testing.

Skills

Backend Technologies : Java, Microservices, Spring Framework, Spring Boot, OOP principles, JWT & OAuth, JSP, JDBC, , System Design, HLD, LLD, Design Patterns, RDBMS, MySQL, Hibernate, JPA, RESTful APIs, Multithreading & Concurrency , JavaScript

Cloud: GCP, Cloud SQL, Big query, Docker, Messaging Services like Pub/Sub, Kafka, RabbitMQ

DataScience & ML: Python, Machine Learning, Deep Learning, Data Science, Web Scraping, Marketing Analytics and its models MTA /MMM

Tools & Testing: Git, Postman, Swagger, GitLab , Oracle SQL Developer, JUnit & Mockito

Key Projects

Async Scenario Reports

Scaled up optimization reports to handle **5x data size**, enabling seamless support for rapidly growing client data and maintaining robust system performance.

Migrated existing UI logic to backend systems, enhancing performance and scalability.

Leveraged BigQuery, Cloud Functions, and GCS buckets to efficiently process and manage large data volumes.

Implemented multithreading to parallelly process scenario data in BigQuery handling improving processing speed by **60%**.

Real Time Scenario Reports

Designed and implemented JavaScript code to support real-time UI edits for small, feasible scenarios.

Analyzed existing use cases to ensure smooth integration and enhance user experience.

Reduced latency by **35%** through frontend-driven computation, eliminating unnecessary backend calls.

Utilized complex data structures to implement user-defined edits and constraints for optimized performance.

Implemented multithreading to parallelly fetch scenario data from BigQuery using limits and offsets, optimizing query performance and reducing data retrieval time.

Product Community Website

Built a full-stack application using Angular (frontend) and Spring Boot (backend) with MySQL as the database.

Implemented JWT authentication for secure login and user management.

Web Scrapping Scripts for Ecommerce Websites [Link](#)

Developed Python scripts to scrape product data, reviews, and images from e-commerce sites for machine learning model training.

Education

Dr. A.P.J. Abdul Kalam Technical University , Lucknow, India [2018-22]

Bachelors of Technology (Computer Science and Engineering) – 8.56 CGPA

Rewards and Achievements

Awarded for outstanding contributions in Q1 and Q4 at Transunion.

Secured second place in a Vlabs Bootathon by leading the development of two virtual labs.

Problem solving on Leetcode and other platforms.

Profiles : [GitHub](#) | [Leetcode](#) | [LinkedIn](#) **Certificates and LOR** : [Link](#)