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ASHWIN RAMAN

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EXPERIENCE

Member of Technical Staff

September 2020- present

EBay Inc, NYC

- Developing efficient algorithms that process gigabytes of data utilizing proven algorithmic ideas and concepts in classification, text, mining, and information retrieval using technologies like Java, Scala, Kafka, Spark, and Airflow.
- Implemented the Great Price feature which increased the conversion rate by 14%. A Great Price signal was used to identify the lowest-priced item on the search result page to help buyers make a faster decision.
- Migrated spark and Hadoop jobs from an in-house automation platform to use Apache Airflow. This involved optimizing the existing jobs and developing the data pipelines on Airflow.
- Designed and developed the Best Selling signal to find popular items by capitalizing on quantity sold and good seller feedback.

Principal Software Engineer

August 2017- September 2020

Unifi Software Inc. acquired by Dell Boomi, San Mateo, CA

- Developed pluggable APIs using technologies like Scala, Akka, Spark, Python, and PostgreSQL.
- Developed a parser to parse structured and semi-structured data like XML, JSON and CSV files and represent in a flattened, tabular structure that can be easily saved in columnar format.
- Worked on adding the capability of spark streaming using Apache Kafka to stream data and used the Spark job server for submitting and managing jobs.
- Improved the function library by implementing an expression generator that ensures the SQL statement is syntactically accurate and can be used to perform data transformation.

Software Development Engineer

April 2016 - June 2017

Informatica Corporation, Redwood City, CA

- Implemented dynamic target creator for Informatica mapping designer which transforms source data and stores them in a flat file, Amazon Redshift, relational, and Salesforce databases without requiring the target syntax.
- Implemented SAP IDoc writer as a target type for Informatica mapping transformation.
- Optimized performance for data grids with over >10,000 records, by using temporary tables, materialized views and processed records in subsets when applying for filters and user permissions.

Senior Software Engineer

July 2011 - August 2014

Parametric Technology Corporation

- Redesigned old architecture pages to spring framework and developed features like drill-down, advanced filters, tags, and decorators for data grids and chart APIs resulting in improved efficiency and reusability.
- Created a service to track the progress of all processes running in the application and used polling to track the state change. An activity log page displayed these state changes.
- Led the development task for Approval Workflow and Pricing strategies for BMW by contributing to the design, development, and testing phases.

EDUCATION

University of California, Irvine

March 2016

Master of Science in Computer Engineering

Bharati Vidyapeeth's College of Engineering

May 2011

Bachelor of Technology Computer Science and Engineering

