

Sandeep Kumar Patra

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EMPLOYMENT

Software Development Engineer II – Aptio Inc., Bangalore (Oct. 2020 – Present)

- Work as an SSD in the Data Team.
- At the moment, refactoring, Dockerizing, and migrating existing legacy services to Kubernetes platform to comply with US government guidelines.

SDE2 Data Engineering - ZestMoney, Bangalore (Feb 2020 – Sep. 2020)

- Saved \$8000 per month on CDC cost. Designed and automated a data warehousing solution using Apache Spark, AWS S3 as a data lake, and Redshift as data warehouse. Designing a CDC tool with open-source stream capturing and processing tech like Spark, Kafka and Debezium. Rearchitected the Risk calculating engines from a Python based system to a Java based system which upped the SLA from 10 seconds to 8 seconds.

Senior Software Engineer – Big Data Systems, Multicoreware (May 2019 – Feb 2020)

- Worked predominantly as a Data Engineer. Designed and developed distributed computing logic for data ingestion and transformation using Apache SPARK. Coded distributed data processing systems and computing logic to leverage cloud computing platforms. Implemented Snowflake DB based solution for a particular healthcare client to bring down compute cost by 50%.

Senior Software Engineer - Formcept, Bangalore, India (Aug. 2018 – May 2019)

- Developed data science and analysis pipelines for various components for their flagship product: **MECBOT**. Implemented ArangoDB (graph database) integration with MECBOT for flattened data view generation. Designed and implemented APIs, using Java, Scala, and Spark, for distributed data processing and computation.

Software Developer Data Engineering - Orzota, Inc. IoT Platforms (Feb. 2017 – Aug 2018)

- Worked as a data engineer/software developer on the project of migrating Verizon's **IVR** from a rule-based system to an intelligence-based system to bring down operational cost from \$20/IVR call to \$2/IVR call. Created data pipelines, and APIs to consume that data and run data science equations to tag a specific call as a specific problem.
- Developed scalable distributed data solutions using Spark by analyzing highly parametric massive healthcare datasets. Wrote internal J2EE web applications to provide analytic trend views of data for analytic reporting, leveraging.

Internship – Graduate Assistant — University of South Florida, USA (Aug. 2016 – Dec. 2016)

- Taught data warehousing using SQL Server 2014 to undergraduate seniors.

Java Application Developer — Virtusa Consulting Services Pvt. Ltd, Pune, India (Nov. 2013 – July 2015)

- Worked as an individual Java developer for developing a single sign on application for Citi Bank using Spring security, URL based security, and SiteMinder.

Tech: Java, Scala (basic), Apache Spark, AWS tech Stack, SQL, NoSQL, Hadoop2.0, Docker, Kubernetes

Education

MS in Information Systems (University of South Florida- Tampa, USA) - (Aug 2015 – Dec 2016)

B.Tech in Computer Science & Engineering (NIT Rourkela, India) - (June 2009 - May 2013)