Hariharasudhan Thirumurthy

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SUMMARY

Proactive and results-driven Software Engineer equipped with a Master's in Computer Science, specializing in the design and deployment of scalable software solutions. Holds four and a half years of comprehensive experience in software development, including full stack and backend development, as well as real-time analytics. Certified as both an AWS Solutions Architect and Cloud Practitioner, demonstrating strong proficiency in advanced cloud technologies and architectures.

SKILLS

Web Technologies: Spring Boot, Microservices, GraphQL, gRPC, REST APIs, React, NodeJS, Next JS, Typescript, JS, HTML, CSS. Database: Map Reduce(Hive, Apache Spark), NoSQL(MongoDB, Redis, Cassandra), SQL (Oracle PL/SQL, Postgresql)
Programming Languages: Java, Python, Javascript, C/C++ (parallel programming with MPI), CUDA and GPU programming.
Cloud Services: AWS Cloud (EC2, SQS/SNS, API Gateway, Lambda, S3, , RDS, DynamoDB). GCP (BigQuery, BigTable, Firebase)
CI/CD and Tools: Terraform, Jenkins, Dockers, Kubernetes, Airflow, Kafka, Flink, GIT, Rabbit MQ, Elastic Search, Gradle, Maven.

PROJECTS

- Developed an Android application to simplify attendance management by reading RFID tags using NFCs on phones (2016).
- Smart home automation: Used Embedded systems to control lights, fans, etc. through voice via an Android application (2016).
- Developed embedded hardware to store crypto wallet information securely. Leveraged QT/QML for UI.
- Developed an Enterprise-level e-commerce website for mobiles, having a mobile compare feature. Used **Angular** for the front end.
- SwiftSoftJobs: Designed a dynamic system tailored to streamline job applications by fetching over 100 software job postings across the US daily. This tool enhances job seekers' visibility by ensuring timely applications, capitalizing on data that indicates earlier applications significantly increase the likelihood of a hiring manager's review
- Predict USDA for Recipes: Developed ML model to predict health score for various recipes using tensorflowSpark.
- Built an NN with transfer learning on the image dataset to identify the concept activation vectors to analyze the correctness of the model. Image classification, Object detection, and semantic segmentation were analyzed with OpenCV to verify correctness.

WORK EXPERIENCE

Senior Software Engineer - Project Associate

March 2022 - June 2022

Indian Institute of Technology

Chennai, India

- Researched, analyzed, and designed an application that classifies people based on demographics from the geotags, enabling outdoor advertisers to maximize their reach and **boosting profit margins by 110%**.
- Developed a real-time data processing system leveraging Kafka to stream geo pings and Apache Flink to aggregate data, enabling clients to dynamically adjust their market strategies, and thereby revolutionizing the outdoor ads industry.

Senior Software Engineer - Software Product Development

March 2020 - February 2022

MasDat Solutions LLP

Bangalore, India

- Produced low-latency statistical reports for metrics tracking and stakeholder reporting. Leveraged Apache Airflow to extract
 data and loaded it into Hive. Utilized Presto for efficient querying and report generation.
- Re-engineered the web application to support multilingual capabilities, facilitating business expansion into the Middle East and Europe while significantly improving scalability and user experience.

Senior System Engineer

January 2018 - March 2020

Infosys Ltd for the client Goldman Sachs

Bangalore, India

- Collaborated with cross-functional teams like Credit Risk Management to develop a comprehensive application for client onboarding processes including negotiations, due diligence, risk management, and account setup. This innovation reduced client onboarding time by 60%.
- Identified data corruption in systems and developed validation routines and services to ensure data integrity during transfers, resulting in a 27% improvement in data accuracy.
- Led the enhancement of a legacy application, including query optimizations and setting up new ETL pipelines to fetch data from updated sources while deprecating invalid data sources. Ensured seamless and error-free operations by independently managing the entire project lifecycle, from conceptualizing the vision and creating the roadmap to designing, implementing, testing, and successfully launching the solution.

EDUCATION

August 2022 - May 2024

Master of Science in Computer Science

GPA: 3.71/4