

# Hariharasudhan Thirumurthy

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## SUMMARY

Software Engineer with 4.5+ years of experience in designing and building scalable, reliable, and fault-tolerant distributed systems. AWS Certified Solutions Architect with strong expertise in backend development, cloud services, big data pipelines, and real-time analytics.

## SKILLS

**Web Technologies:** Spring Boot, Microservices, Hibernate, gRPC, REST APIs, React, NodeJS, Next JS, Typescript, JS.

**Database:** Map Reduce(Hive, Apache Spark), NoSQL(MongoDB, Redis, Cassandra), SQL (Oracle PL/SQL, Postgresql)

**Programming Languages:** Java, Python, Javascript, C/C++, CUDA, OpenCL, OpenGL.

**Cloud Services:** AWS Cloud (EC2, SQS/SNS, API Gateway, Lambda, S3, RDS, Redshift). GCP (BigQuery, BigTable, Firebase)

**CI/CD and Tools:** Terraform, Jenkins, Dockers, Kubernetes, Airflow, Kafka, Flink, GIT, Rabbit MQ, Elastic Search, Gradle, Maven.

## PROJECTS

- **Predict Health Score for Recipes:** Created a **Keras** Machine Learning model (**Tensorflow**) to predict health scores for various recipes. Leveraged **Spark** for dataset analytics, data clean-up, and data validation.
- Constructed a neural network from scratch, manually implementing backpropagation, SGD, and Adam; achieved 91% accuracy.
- **SwiftSoftJobs:** Engineered a job automation system that aggregates 100+ software job postings daily across the U.S., reducing job search time and boosting early applicant visibility by more than 50%. *Technologies: Python scripts, GCP(API Gateway, Cloud Functions, Big Table, Cloud Scheduler, Google Cloud Storage).*

## WORK EXPERIENCE

### Senior Software Engineer - Project Associate

March 2022 - June 2022

Indian Institute of Technology

Chennai, India

Developed a geotag-based demographic classification platform to optimize outdoor advertising, resulting in a 2x increase in revenue.

- Built a real-time data processing system to stream and aggregate pings, enhancing market strategy.
- Set up CI/CD pipelines, optimizing developer operations and **shortening deployment cycles by 70%**.
- *Technology: Spring MVC, React, Jenkins, Kafka, Flink, Mongo DB, Typescript, Javascript.*

### Senior Software Engineer – Software Product Development

March 2020 - February 2022

MasDat Solutions LLP

Bangalore, India

Led the integration of 2,000+ smart bins for client Waste Harmonics, automating waste collection and enabling real-time updates.

- Streamlined analytics by migrating to a Hive-Presto pipeline, boosting performance by 40% and accelerating data retrieval by 20%
- Revamped web application architecture to support multilingual capabilities, contributing to a **2x** increase in business expansion.
- Automated order placement and parts shipping using autogenerated packing slips, increasing operational efficiency by **40%**.
- *Technology: AWS(SQS, SNS, Lambda, S3, RDS, ALB, VPC, Identity Access Management), Spring Boot, React, Javascript.*

### Software Engineer

January 2018 - March 2020

Infosys Ltd for the client Goldman Sachs

Bangalore, India

Contributed to the Margining and Client Onboarding Teams, enhancing financial operations and streamlining integration workflows.

- Collaborated with cross-functional teams to develop a comprehensive application for client onboarding processes including negotiations, due diligence, risk management, and account setup. This **innovation trimmed client onboarding time by 60%**.
- Improved data accuracy by 27% by building validation routines to detect and prevent corruption during transfers.
- Redesigned a legacy application by optimizing queries and implementing new ETL pipelines, replaced outdated data sources. Led the project end-to-end and introduced an auto-approval feature that minimized processing time by **85%**.
- Delivered a pre-trade repurchase agreement module that reduced incident-related costs by 100%, **saving millions of dollars**.
- *Technology: Spring MVC, Spring Boot, Hibernate, Mithra, Legend, Slang, SecDB, React, Java, J2EE, PL/SQL, Sybase, DB2.*

## EDUCATION

### Missouri University of Science and Technology, Rolla, MO

August 2022 - May 2024

Master of Science in Computer Science

GPA: 3.7/4

### VIT University, India

July 2013 - May 2017

Bachelor of Technology in Information Technology

GPA: 8/10

## CERTIFICATION

- AWS Certified Solutions Architect Associate
- AWS Certified Cloud Practitioner