

Renga Bashyam

Bengaluru, India

rengabkg@protonmail.com • +91 75980 10654

A mid-level software engineer with an interest in distributed systems, an eagerness to solve scaling challenges, and a penchant for writing clean code.

Skills

PROGRAMMING LANGUAGES

Java (Proficient)

C, C++ (Intermediate)

Golang, Rust (Beginner)

TECHNOLOGIES

Apache Spark, Elasticsearch, PostgreSQL, DynamoDB, SQS, Jenkins

OBSERVABILITY TOOLS

Prometheus, Grafana, Kibana

PARALLELIZATION FRAMEWORKS

OpenMP, MPI, CUDA

Experience

ThoughtSpot

Member of Technical Staff - 3

August 2020 - Present, Bengaluru

- Created a **gRPC** microservice from scratch and designed its **PostgreSQL** schema.
- Added snippets that matched user query in **ElasticSearch** results.
- Created batch jobs in **Apache Spark**.
- Ensured more than 90% unit test coverage for code added.
- Other relevant frameworks worked on: **Guice**, **JOOQ**, **Flyway**, **JUnit**.
- Worked with the following operational tools: **Prometheus**, **Grafana**, **Kibana**, **Jenkins**.

Amazon

Software Development Engineer - 1

July - December 2017, Chennai

- Created an asynchronous API using **SQS** as the message broker.
- Created a background worker that polled from **SQS** and wrote to **DynamoDB** after making a slow network call.
- Worked with internal monitoring, logging tools to debug production issues.

Education

Indian Institute of Science, Bengaluru

M. Tech, Computational and Data Sciences

2018 - 2020

CGPA: 8.5/10

College of Engineering, Guindy, Anna University, Chennai

B. E, Computer Science and Engineering

2013 - 2017

CGPA: 9.13/10

Projects

Fast Scalable Approximate Nearest Neighbor Search for High-dimensional Data

Developed a scalable, distributed nearest neighbor search method for billion-scale datasets using OpenMP and MPI and exhibited good strong scaling.

Hybrid CPU-GPU Strongly Connected Components Computation

Designed and implemented a hybrid algorithm, effectively utilizing both CPU and GPU cores using OpenMP and CUDA to compute strongly connected components in power-law graphs.

Internships

Indian Institute of Technology, Madras

Summer Research Fellow

May - July 2016

Surveyed and implemented dynamic graph algorithms in C++ using STL.

Xome Services India Private Limited, Chennai

Graduate Intern

June - July 2015

Developed an internal employee web portal using Python Flask and EmberJS.