Sai Rishita Golla

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EDUCATION

University of Massachusetts, Amherst — Amherst, MA
Master of Science in Computer Science; GPA: 3.95/4.0 — *Sept 2021 - May 2023 (Expected)*
Coursework: Independent study in distributed systems, Distributed and Operating Systems, Cloud Computing, Software Engineering

National Institute of Technology Karnataka (NIT), Surathkal — Surathkal, India
Bachelor of Technology (Honors) in Information Technology — *July 2015 - July 2019*
Coursework: Distributed Systems, Operating Systems, Data Structures and Algorithms, Cloud Computing, Machine Learning

EXPERIENCE

Walmart Global Tech — Jul 2019 - Jul 2021
Software Engineer (Full-time), Last Mile Delivery Team — *Bangalore, India*
- Increased revenue per week by 7% by owning end-to-end development for Walmart Express delivery. Created new Kafka topic for order events, Java consumer to read data, and expanded the existing driver search process.
- Reduced driver search time by 50% by implementing in-memory caching and parallel API processing.
- Built order creation APIs using Spring Boot framework to support critical Walmart Plus initiative with >92% test coverage. Tested with teams across multiple organizations to launch the feature in over 3000 stores.
- Launched automatic re-booking of Black Friday sales orders using CRON job scheduling to improve the delivery rate by 0.9%.
- Decreased average wait time for drivers by 4 mins by distributing trips throughout the day based on the calculated slot capacity.

Technologies: REST API, Spring, Java, Kafka, MySQL, Microservices, Hibernate, Jenkins

Coursera — Sept 2022 - Dec 2022
Software Engineer Intern (Co-op), Growth Foundations — *Mountain View, US*
- Explored DynamoDB (NoSQL), RDS Aurora-MySQL, and ElasticSearch as database migration options for A/B testing platform.
- Reduced the querying latency by 9s by integrating the existing database with ElasticSearch.

Technologies: Java, Spring Boot, DynamoDB, RDS Aurora-MySQL, ElasticSearch, gRPC, AWS, Docker, JUnit

Coursera — May 2022 - Aug 2022
Software Engineer Intern, Growth Foundations — *Mountain View, US*
- Decreased experiment run time by 12% by implementing customizable significance threshold for primary metrics.
- Migrated 2K lines of code from Scala to Java for A/B testing tool, based on gRPC architecture.

Technologies: Java, Spring Boot, REST API, Scala, Protocol Buffers, gRPC, GraphQL

Walmart Global Tech — May 2018 - Jul 2018
Software Engineer Intern, Last Mile Delivery Team — *Bangalore, India*
- Identified and analyzed database and latency issues associated with multiple microservice calls in the last mile system.
- Leveraged bulk updates and concurrent processing to reduce the response time by 6s for the delivery API.

Technologies: Kafka, REST API, Spring JPA, MySQL, JUnit, root-cause analysis, performance tuning, parallel processing

ACADEMIC PROJECTS

Bazaar: A distributed application to purchase goods online — Nov 2022
- Engineered a peer to peer network simulating a local market place capable of handling concurrent requests.
- Implementation supports fault-tolerance, replication, and consistency of multiple connected peers communicating over remote procedure calls to buy and sell products.

MapReduce library — Oct 2021
- Designed and developed a single node, multi-process, fault-tolerant, leader-follower-based MapReduce library in Python.
- Each mapper process calls a user-defined map function to produce an intermediate file. Reducers call a user-defined reduce method after all mappers have completed and write to the final output file.

Implicit hate detection using sarcastic and aggressive context — May 2021
- Performed a study over the implicit hate speech detection problem in binary and multi-class settings.
- Achieved a final accuracy of 80.66% through experimental analysis of Intermediate fine-tuning with Twitter data and Hate-speech tasks such as HSOL and Gab Corpus.

Interface for Bibliographic Records — May 2019
- Developed an entity-based framework for searching bibliographic data from complex natural language queries.
- Implemented a set of algorithms using dependency and graph relations to convert input query to graph language query Cypher and retrieve records from NoSQL graph database Neo4j.

TECHNICAL SKILLS

Programming languages: Java (OOP), Python, C/C++, JavaScript, Scala, Bash script

Web Technologies: React, HTML/CSS

Tools and Frameworks: Spring Boot, Apache Kafka, ElasticSearch, Guice, gRPC, Protocol buffers, GraphQL, Mockito

Miscellaneous: MySQL, NoSQL, Linux, Git, Oracle, AWS, Docker, Kubernetes, Terraform, Jenkins, Maven, Gradle

OTHERS

- Received scholarship to attend Grace Hopper Conference (GHC), 2022.
- Served as a Math academic support volunteer for a year for five high school students at a non-profit organization - Make A Difference (MAD).