

# Rishabh Thukral

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## EDUCATION

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### Georgia Institute of Technology

Atlanta, GA, USA

*Masters of Science in Computer Science specializing in Computing Systems, GPA: 4.0*

2021 - 2023

- Relevant Coursework: High Performance & Parallel Computing, Advanced Operating Systems, Computer Networks, Machine Learning, Big Data Systems & Analytics, Information Security.

### Indian Institute of Technology (ISM) Dhanbad

Dhanbad, India

*Bachelor of Technology in Computer Science & Engineering, CGPA: 9.21/10.0 with Honors*

2014 - 2018

## TECHNICAL SKILLS

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**Programming & Scripting:** Go, C++, Python, C, Java, Scala, R, JavaScript/TypeScript, Bash, SQL

**Frameworks:** gRPC, Gin, Hive, Hadoop, Spark, Kafka, OpenMP, OpenMPI, React, Redux, R-Shiny

**Applications & Tools:** Docker, Kubernetes, Big Query, Atomic, Tableau, CockroachDB, Git & GitHub

**Cloud:** Google Cloud Platform, Microsoft Azure

## EXPERIENCE

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### Georgia Institute of Technology

Atlanta, Georgia

*Graduate Head Teaching Assistant*

January 2023 - Present

- Head TA leading the team of nine TAs for the class Graduate Algorithms taught by Prof. Gerandy Brito.

### Instabase

Menlo Park, California

*Software Engineering Intern*

May 2022 - August 2022

- Developed Config Simulator tool for the Control Plane infrastructure team to simulate the impact of patches with diffs.
- Enabled JSON or YAML-based patches to micro-services configuration running in the Kubernetes cluster
- Created the application with back-end developed as RESTful web service in Go and the front-end using React and Redux with Typescript enables the company to cut down on deployment time & any infrastructure issues resolution time.

### Walmart Global Tech

Bengaluru, India

*Data Engineer III, Data Strategy & Insights*

September 2020 - July 2021

- Developed data warehousing system to manage customer communication data on channels like SMS, Email & Push Notification using ETL pipelines running on GCS and Apache Hive & Spark consuming from Kafka.
- Executed POC for one stop customer journey data store which evolved into business supported production project.

*Software Engineer II, Global Data*

August 2018 - August 2020

- Developed ETL system for Clickstream & Marketing e-commerce data generated across Walmart platforms to load into Data Lake & GCS using Apache Hive, Spark & Hadoop ecosystem.
- Worked across domains including indirect spend management & finance with Azure ADLS & Google Cloud products.

## PROJECTS

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### Real Time FAQ Generation for Live Events

October 2022 - December 2022

- Generate FAQ in real time for live events to identify relevant and prominent questions using Apache Kafka.
- Developed ML pipeline using unsupervised learning to identify dense clusters of semantically similar questions ([Demo](#)).

### Distributed Key Value Store Service

March 2022 - April 2022

- Implemented distributed key-value store based on DynamoDB using gRPC in C++ and Bash shell scripting.
- The key value store implements faults tolerance using replication, data partitioning to support scalability, and consistent hashing for performance. The service is entirely automated and supports multiple values for same key input.

### Snappy Compression Service

February 2022 - March 2022

- Developed a file compression service that uses Google snappy library to perform reasonable compression at fast rate.
- The service supports multiple clients simultaneously and all communications happen over shared memory. The solution is designed for shared memory multiprocessor systems.

### Steganography in R

October 2017 - November 2017

- Developed security tool to hide textual data inside images by encoding them into pixel intensities.
- Developed end to end with user interface in R. [GitHub](#)

## AWARDS

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**Winner, HackGT9** Won the first prize for T-Mobile challenge at annual GaTech hackathon ([Project Link](#)) October 2022

**Bravo Award, Walmart** For contribution to data pipelines of Indirect Spend Management. February 2020