Karri Sai Satish Kumar Reddy

Email : ksskreddy2015@gmail.com

Mobile : +91-9932028385

LinkedIn : satish0208

EDUCATION

- **Indian Institute of Technology Kharagpur** — Kharagpur, India
  Bachelor Of Technology in Computer Science And Engineering; CGPA: 9.08/10 — *July 2015 – July 2019*

WORK EXPERIENCE

- **Cohesity** — Bangalore, India
  Research Engineer — *July 2019 - Present*

  ### Object Based Backups (DMaaS)
  - Involved in design and development of object based backups which is the prime feature in the initial offering of **DMaaS(Data Management as a Service)**.
  - As part of Magneto-Infra team, involved in delivering various performance/scale improvements in the control path operations for performing the backups/restores.
  - Currently working on the project **DRaaS(Disaster Recovery as a Service)** which is one of the next biggest upcoming feature.

  ### Pulse
  - Involved in redesigning of a service called Pulse(Progress monitoring service) which used to cause various scale issues like UI slowness and stalling of backups in large deployments.
  - Massively parallelized the operations of pulse by implementing fine grained locking, flow control, client/server side batching, caching which resulted in improving the overall service performance by 60%.

- **Intuit** — Bangalore, India
  Software Engineering Intern — *May 2018 - July 2018*

  ### Aurora Adapter
  - Involved in design and development of a module called adaptor which consumes data from Aurora mysql database instances using Debezium,a kafka connect based platform.
  - The designed Adaptor was fault tolerant,highly available and can be used for any mysql database.
  - Used SMT to convert the consumed data to required schema and pushed to kafka in real time.

ACADEMIC PROJECTS

- **Motion Clustering**: *Bachelors Thesis* Clustering of similar motions in the given Bharatanatyam dance video. Achieved an accuracy of 80% by using DTW as similarity measure and spectral clustering.
- **Flamingo**: Distributed cluster middleware system for job submission and monitoring.It performs Job scheduling, starvation free match-making, job premption and migration.
- **TransWrapper**: Google QUIC like modular transport layer wrapper on top of UDP.Implemented flow control, congestion control following optimizations like slow start, fast recovery etc over the UDP protocol.
- **File System**: Implemented a memory resident Unix-Like file system (MRFS) supporting multiple users which provides all the standard linux file operations.

ACHIEVEMENTS

- Nominated as the best performer and received Top Gun Manverick Award for a quarter in Cohesity.
- Received the prestigious **CHAIRMAN BOARD OF GOVERNORS GOLD MEDAL** on 65th convocation of IIT Kharagpur for being best all-rounder performer under disabled category.
- Stood **52nd** in **ACM-ICPC(2018) Online Qualifiers** and qualified for the Amritapuri Regionals
- Ranked **83rd** in the **Amritapuri onsite regionals** of ACM ICPC 2018.
- Secured **8th** Rank in **JEE ADVANCED 2015** in OC-PH category.

PROGRAMMING SKILLS

Languages: Fluent in C, CPP, Experienced in Golang, Python, Java.
Tools/Libraries: Experienced in Protocol Buffers, Git, AWS, Docker, Kafka, Confluent