

# SUMANTH DASI

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## EDUCATION

**Masters in Computer Science**, Expected December 2023

*University at Buffalo, The State University of New York*

- GPA: 4.0 / 4.0
- Relevant course work: Operating Systems, Distributed Systems, Databases and Parallel Algorithms

**Bachelor of Technology in Computer Science**, June 2019

*SASTRA University*

- GPA : 8.38 / 10.0

## EXPERIENCE

**Software Developer, SS&C Eze, Hyderabad, India**, June 2019 - August 2022

- Collaborated with a team of 4 to develop a Eze mobile app for stock trading and portfolio management for fund management using React Native framework for Android and iOS platforms.
- Implemented authentication and authorization of users with OpenId standard on AWS Cognito.
- Developed libraries for storing refresh tokens from OAuth 2.0 in device using Hardware Security Modules(Secure Enclave and Strong Box) on both mobile platforms.
- Created and deployed REST API's needed for data in Go Language for scalability and performance.

**Intern, SS&C Eze, Hyderabad, India**, February 2019 - May 2019

- Collaborated in a team of 5 to create a server on OAuth 2.0 to authenticate and authorize services.
- Deployed a server built on ASP.NET core with OAuth 2.0 implementation.
- Designed an admin portal for viewing and updating service access levels.

## PROJECTS

**Distributed Hash Table(Kademlia)**, Spring 2023

- Built a distributed hash table using Golang for content addressing using principle of Kademlia.
- provided a way for multiple computers to self-organize into a network, communicate, and share resources, all without a central registry or lookup.

**Performance study using MPI on disease simulation(High performance computing)**, Spring 2023

- Devised a disease spread simulation to evaluate performance gains through parallel processing.
- Used MPI library to run simulation leveraging multiple CPU processors at university's super computer
- identified affect of travel, safety and contaminant factors on rate of disease spread among groups.

**Raft(Distributed Systems)**, Spring 2023

- Implemented the Raft distributed consensus algorithm in Golang to provide a reliable and fault-tolerant way to achieve consensus in a distributed system.
- Implemented four major components of the Raft protocol: Leader Election, Log Replication, Log Commitment, and Client Interaction.

## TECHNICAL SKILLS

Languages: Java| C#| Python| Go| JavaScript| C++| SQL.

Frameworks: React Native| .NET| ReactJS with Redux| OAuth 2.0| MPI.

Databases: SQL Server| Postgres.

## PUBLICATIONS

Scene Text Recognition: A Preliminary Investigation on Various Techniques and Implementation Using Deep Learning Classifiers. ([https://link.springer.com/chapter/10.1007/978-981-15-1286-5\\_20](https://link.springer.com/chapter/10.1007/978-981-15-1286-5_20)).