**Ganeshprasad Biradar**

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**EDUCATION**

**Texas A&M University, College Station Aug 2021 – May 2023**

Master of Computer Science **CGPA: 4/4**

* Relevant courses: Analysis of Algorithms, Distributed Systems, Parallel Computing, Software Engineering

**R.V. College of Engineering, Bangalore Aug 2016 – Sept 2020**

Bachelor of Engineering in Computer Science **CGPA:** **9.61/10**

* Relevant courses: Advanced Data Structures, Object Oriented Programming, Machine Learning, Data Science

**SKILLS**

* Programming Languages: C, C++, Go (golang), SQL, Python, R
* Network Programming in C
* Parallel Computing: Concurrency, Multithreading and Synchronization Using Pthreads, CUDA and OpenMP
* Cloud platforms: AWS, GCP and Azure
* Agile Methodologies
* ML: Scikit-Learn, Numpy, Pandas, PyTorch
* **Open Source Contributions**:
  + CockroachDB: It is a distributed, strongly consistent SQL database written in Go. I have contributed to their SQL parsing layer.

**WORK EXPERIENCE**

**Texas A&M University, College Station  *Graduate Research Assistant*  July 2020 – June 2021**

* Leading a team of 2 to add conversational intelligence to VR characters in different VR applications

**Citrix R&D, Bangalore *Software Engineer 2* April 2019 – August 2019**

* Collaborated with 7 people across 3 countries (India, Greece and US) to implement High Availability and Backend Autoscaling in Citrix's Application Delivery Controller (ADC) for different cloud providers: AWS, Azure and GCP, which increased the adoption of the product by around 20\% on all the cloud providers
* Proposed and led an initiative to create an unified API for communicating with different cloud providers that made development of new features of Citrix ADC 3 times faster on these clouds.
* Played a key role in migrating the ADC codebase from FreeBSD 8.4 to 11.4

**Citrix R&D , Bangalore *Software Engineering Intern* May 2018 – July 2018**

* Developed a new framework to automate the deployment of complex topologies using Citrix ADC on different clouds like GCP, AWS, and Azure, which reduced the average testing time for new releases of the product by around 60%. My team won Highest Revenue Impact’ and ‘Most Popular Choice’ awards at Citrix's Techfair (2019) for this project.

**Samsung R&D, Bangalore *Software Engineering Intern* June 2018 – August 2019**

* Co-led a team of 4 to create a ML model by experimenting with different unsupervised clustering algorithms like DBSCAN, K-MEANS, and OPTICS to identify under-performing eNodeBs in a highly overloaded LTE network using Key Performance Indicators (KPIs), which entirely eliminated manual supervision to detect congested eNodeBs.

**PROJECTS**

**Parallized Gaussian Process Regression using CUDA**

* Parallized different steps involved such as LU decomposition, matrix multiplication and achieved a peak speedup of over 200 for the decompose function.

**Parallel matrix inversion of upper triangular matrix using OpenMP**

* Achieved a speedup of around 4 using by parallelizing the recursive implementation.

**Distributed In-Memory Key-Value Storage**

* Used a main server to keep track of partitions of key across multiple servers, which is used to redirect queries. Static partitioning of keys is decided based on the number of server