

RADHA GULHANE

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EDUCATION

The Ohio State University Master of Science - Computer Science & Engineering • Coursework: High-Performance Deep Learning, Advanced Operating Systems, Intermediate Studies in Computer Networking, Algorithms, Introduction to Data Mining, Data Visualization	Aug 2022- May 2024 GPA: 3.6/4
Vishwakarma Institute of Technology, Pune, India Bachelor of Technology – Computer Engineering • Coursework: Advanced Data Structure, Database Management Systems, Design and Analysis of Algorithms, Artificial Intelligence	Aug 2017 - June 2021 GPA: 9.77/10

EXPERIENCE

Intern - Software Developer Seagate Technology, Longmont, CO, US <i>Technologies: Go, Prometheus, Grafana, Docker, Kubernetes</i> <ul style="list-style-type: none">Developing a platform that visualizes the status of memory usage in a cluster, allowing for monitoring and analysis of its health.Implementing a cross-compilable Golang agent that serves as an exporter for the system's memory statistics and configure it with Prometheus and Grafana to facilitate seamless integration and data visualization	May 2023 - Present
Software Engineer - Cloud Systems Seagate Technology, Pune, India <i>Technologies: C, C++, Python, Docker, Kubernetes, Multithreading, Parallel Computing</i> <ul style="list-style-type: none">Contributed to an open-source, cloud-distributed storage, CORTX, by designing and developing state-of-the-art persistent B+ tree to optimize the meta-data object storage engine. [codebase]Assisted memory limit feature to reduce primary memory consumption from 95% to acceptable levels in absence of swap spaceAchieved performance improvement of up to 30% read and 10% write object in case of direct addressing (i.e., the object will reside in node) and 60% read object for indirect addressing (i.e., the node will hold the address of object)	July 2021 - July 2022
Intern - Cloud Storage Seagate Technology, Pune, India <i>Technologies: C, C++, Python, Django, MongoDB, Splunk</i> <ul style="list-style-type: none">Led proof-of-concept to provide optimal object storage over in-used B tree, which involved research on B+ tree and B-epsilon tree data structuresIntegrated Splunk software with a Lyve cloud object storage to test compatibility and performance analysis (such as throughput, latency, and memory consumption)	July 2020 - June 2021

TECHNICAL SKILLS

Programming Languages: C, C++, Go, Java, Python
Web Technologies: ReactJS, NodeJS, Express, Django, HTML, CSS, JavaScript, Spring, Hibernate
Other Technologies: MongoDB, Oracle, SQL, Docker, Kubernetes, Distributed Training for Deep Neural Networks, PyTorch, Horovod, TensorFlow, Tableau, D3.js, Splunk, GitHub, CI/CD tools, Jenkins, Linux, Shell Script, VS code, IntelliJ

PROJECTS

Scalable Implementation of Distributed Deep Learning Techniques <i>Technologies: Python, Distributed Deep Learning, PyTorch, Horovod</i> <ul style="list-style-type: none">Working towards the scalability of Distributed Deep Learning techniques, including data parallelism, model parallelism, and hybrid parallelism, along with new improvements for performanceThis project involves understanding advanced Distributed Deep Learning model implementation, multi-GPU training and open source implementation	Jan 2023 – Present
ERP Software for Farmers, sponsored by IEEE <i>Technologies: Grails framework, Groovy programming language, MongoDB</i> <ul style="list-style-type: none">Devised a project to overcome the problem of huge price margins between the selling and buying of the cropsBuilt a web application to connect farmers straight with their customers to avail of direct benefitsFacilitated farmer's work by providing weather forecasts and information about nearby farming equipment retailers	Jan 2020 - May 2020
LAN Examination System <i>Technologies: Java, Oracle database, Socket Programming, Multithreading, Swing application framework</i> <ul style="list-style-type: none">Built an end-to-end secure system to conduct the online examination in a LAN environmentArchitected and developed the client-server modules responsible for data authentication, storage, and handling multiple client requests concurrently.	Aug 2019 - Dec 2019
Edushare – The Academia Assist <i>Technologies: NodeJS, ReactJS, Express, MongoDB</i> <ul style="list-style-type: none">Developed a platform where university students can share their academic work and experience with peersProvided functionality to support access of extensive files using MongoDB GridFS even larger than 16MB	Sep 2019 - Dec 2019

CO-CURRICULAR ACTIVITIES

- Selected for the competitive **Google CS Research Mentorship Program**
- Secured a position in the final round of the **Western Union Hackathon** with a team of 4
- Certified in **C** (A+ grade), **C++** (A+ grade), **Java** (A grade) verified by ISO