TANISHA HEGDE

USA (Open to Relocate) | 6088670508| linkedin.com/in/tanisha-hegde| tanisha.hegde98@gmail.com

SKILLS

Languages: C, C++, Python (Pandas, Numpy, Scipy), SQL (Proficient), Java (Intermediate), Go (Beginner)
Software: Docker, Kubernetes, Azure Stream Analytics, Apache Spark, Hadoop, PowerShell, Kafka
Technology: gRPC, PowerShell, Python Scripting, object Oriented programming, Version Control
Databases: Postgres, Redis, Cassandra, Oracle, MySQL

WORK EXPERIENCE

Persistent Systems   **Oct 2020- Jun 2022**
Software Engineer
Java, Oracle Database, Postman, Data Analysis, Data Visualization
- Automated data flow from HRMS to Target Applications using RBAC reducing manual efforts by 90%.
- Developed Java solutions to connect applications on SaaS IAM Managers and received client satisfaction of 10/10.
- Integrated RESTful API applications, Azure Active Directory providing support for production environment.
- Validated AWS APIs for Amazon Services – EC2, S3 with the Amazon Team, mitigating possible vulnerabilities.

Seagate Technology   **Jul 2019- May 2020**
Firmware Developer
C/C++, Flash Drives, PCIe, Unit Testing
- Utilized C/C++ and OS knowledge to develop SSD diagnostic commands, reducing troubleshooting time by 50%.
- Involved in Code Reviews and followed Agile SDLC methodologies using Git, JIRA and Bitbucket for CI/CD.
- Performed Unit Testing to achieve 98% code coverage, followed by simulated testing before testing firmware on drive.
- Debugged issues in the HARE component of the open-source distributed object storage project- CORTX.

ACADEMIC PROJECTS

Database Optimizer for KV databases ⬀
Big Data Systems, Machine Learning, Cassandra, Redis, Docker, Python   **Apr 2024**
- Tuned Key-Value Databases (NoSQL) like Cassandra and Redis using Machine Learning and Bayes Optimizer.
- Achieved 23% increase in throughput for YCSB workload C for Cassandra and 5% for Redis.

Parallel Training of VGG16 using Gloo and OpenMPI ⬀   **Feb 2024**
Big Data Systems, Distributed Training, Cloud Infrastructure, GPU applications
- Implements ML training models using PyTorch and different data parallel model techniques.
- Trained VGG-11 on CIFAR-10 in a four-node architecture, optimizing with Gloo and DistributedDataParallel (DDP).

HTTP Archives Data Analysis with Google Big Query ⬀   **Dec 2023**
Data Analysis, Data Visualization, GCP, BigQuery
- Analyzed the weight of the web for top technologies like JavaScript Frameworks, E commerce and Advertising.
- Concluded these technologies have 70% of JavaScript and Image bytes that impact compute and execution time.

Auto-scaling with Docker Swarm ⬀   **Feb 2023**
Container orchestration, Docker, Docker Swarm, Grafana, Prometheus, C++, Linux
- Evaluated auto-scaling for CPU utilization, memory, and HTTP requests, with Prometheus and Grafana across varying loads on a 3-node architecture.

EDUCATION

University of Wisconsin – Madison, WI   **Sep 2022 – May 2024**
Master of Science in Computer Science   GPA: 3.8/4.0
Courses: Operating System, Distributed Systems, Big Data Systems, Cloud Databases

Vishwakarma Institute of Technology – Pune, India   **Aug 2016 – Jun 2020**
Bachelor of Technology; Major in Computer Engineering   GPA: 3.8/4.0
Courses: Data Structure, Algorithms, Computer Architecture, Networks, OOP

LEADERSHIP AND EXTRACURRICULAR EXPERIENCE

- Teaching Assistant for Calculus and Analytical Geometry 2 and conducted discussion for 40 students.
- Talent Acquisition Specialist at The Apprentice Project (NGO), crafting recruiting strategies using 10,000 contacts.