Divyang Mittal

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EDUCATION

Columbia University   New York, NY
M.S. Computer Science, Software Systems Track   Expected Dec 2024
Indian Institute of Technology Kharagpur   Kharagpur, IN
B.Tech. Computer Science And Engineering   Apr 2021
CGPA 9.28/10.00.

SKILLS

Languages: C/C++, JAVA, Python.
Framework and Libraries: Kafka Streams, ReactiveX, Resilience4J, log4j.
Databases: RocksDB, Caffeine, Prometheus, MySQL.
Other Tools: Docker, Kubernetes, AWS, Grafana, Helm, Splunk, Fluentbit, PostMan.

PROFESSIONAL EXPERIENCE

Appdynamics, Cisco   Bangalore, IN
Software Engineer - Backend Developer   Jul 2021 - Jul 2023
- Added and owned features in data platform to process over five millions of data packets per minute.
- Devised a two-level cache system, reduced overall processing latency of packets by 20%.
- Remodeled the API calls and added support for pagination and resiliency against multiple call failures.
- Designed a library for reporting SLI and guided its implementation across five teams.
- Employed tech stack: JAVA, Apache Kafka, Kubernetes, Micronaut, Prometheus, FluentBit, AWS, etc.
- Won the Appdynamics 2022 hackathon, in a team of five among 20 participant teams.

Complex Networks Research Group, IIT Kharagpur   Kharagpur, IN
Research Assistant   Feb 2020 - Dec 2020
- Developed a video conferencing system by using a mesh network; scalable to 5 users.
- Built a working prototype by using WebRTC protocol with JavaScript and NodeJs.
- Achieved a 100% increase in maximum user limit by leveraging a semi-distributed architecture.

Appdynamics, Cisco   Bangalore, IN
Software Engineer Intern   May 2020 - Jul 2020
- Improved query time of data from S3 Buckets by up to 40% through an indexing mechanism.
- Utilized ranged based partitioning along with equal sized partitions to prevent small file problems.

PROJECTS

Cluster Management System   Jan 2021 - May 2021
- Designed a distributed system to manage computational workloads; tested against four users.
- Implemented fault tolerance against one master node and any number of computation nodes.

File System for Linux Kernel   Aug 2020 - Dec 2020
- Devised a file system to perform CRUD operations on files and directories. Optimized file system for files of small size by employing inodes; Programmed in C for linux kernel.
- Resolved issue of testing file system over raw disk by emulating a memory system of 4KB blocks.

Social Networking Web Application   Feb 2020 - Apr 2020
- Developed a social networking web application, helped people to build groups and chat. Implemented using Python, JavaScript, Django and MySQL.
- Created two different roles, users and admins, for different levels of access to database.

CO-CURRICULAR ACTIVITIES

- Attained 175 Rank in ICPC, Amritapuri Regionals 2019 among over 1000 teams from colleges across India.
- Served as President of CodeClub, CS Department society, for academic session 2020-2021. Led a team of 40 students to organize different activities including hackathons, bootcamps, department meets, and events.