

ASHAY SHIRWADKAR

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EDUCATION

University of California, Riverside (GPA: 4.0)

Sept 2019 - Current

Masters of Science, Computer Engineering.

TECHNICAL STRENGTHS

Languages: (*Proficient*) C, C++, Python,
Bash, HTML, (*Familier*) SQL, Java

Platforms: AWS S3, Openstack, Docker

Versioning: Git, SVN

Operating System: (*Proficient*) Linux,
Windows

Misc: Docker, NFS, Samba, REST, CUDA,
Ceph, PostgreSQL

WORK EXPERIENCE (4+ YEARS)

Futurewei Technologies, Bellevue (Remote)

June 2020 – Sept 2020

Research & Engineering Intern, Cloud Data and Storage

- By implementing an in-memory indexer in C++ based on height optimized trie, I enabled a consistently high fanout. The layout of each node is carefully engineered for compactness and fast search using SIMD instructions.

Seagate Technologies, Pune

Aug 2018 – Aug 2019

Engineer II

- Designing and implementing the support for NFSv4 to Exos Object Storage (EOS) appliance, I provided a bridge between file storage and object storage.
- Designed a monitoring platform, outside my skillset, on top of EOS using Grafana and StatsD in time critical environment.

DDN Storage, Pune

Jan 2017 – Aug 2018

Software Engineer

- Worked on providing iSCSI Extensions for RDMA (iSER) capability to SFA i.e. block storage platform.
- Developed a new REST interface to get the information from various components of storage compliance Core.

Calsoft Inc, Pune

Jan 2015 – Jan 2017

Development Engineer

- Worked on the project Federated Cloud File System to create a translation channel that mapped the generic UNIX file-system interface to different vendor-specific cloud interfaces in C.
- Implemented on-disk cache to support local modification of objects which reduced network bandwidth usage, latency, and cloud transaction cost.

ACADEMIC PROJECTS

Weakly connected replicated storage system

2020

Distributed Systems Project

- Designed a prototype of a replicated storage system providing weakly consistent guarantees. Hand on experience in implementing an eventually consistent system in Python.

Impact of GPU's I-Buffer entries on performance

2019

GPU and Parallel Programming Course

- Modified the execution pipeline of GPU simulator (GPGPU-Sim) to fetch and buffer more instructions in I-Buffer. Analysis showed 5% to 8% performance improvement on the most commonly executed operations.