

Diptesh MAJUMDAR

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INDUSTRY EXPERIENCE

Microsoft

Senior Software Engineer

PITTSBURGH, PA, USA

OCT 2020 - PRESENT

- Currently develop and maintain [Azure Container Storage](#) - Azure's storage solution for edge devices
- Led development of our token manager - a distributed file-system service that maintains cache-consistency
- Analyzed & improved performance and memory footprint of our file system using profiling, fixing bottlenecks
- Triaging and fixing time-sensitive production issues in NFS, ONCRPC and Kubernetes deployments regularly
- Designed and maintained framework for automated unit, integration, end-to-end and performance testing
- Previously worked on [HPC cache](#) - Azure's caching solution for High-Performance Computing applications

Oracle Corporation

Member of Technical Staff

NASHUA, NH, USA

JUNE 2018 - OCT 2020

- Developed [Exascale Direct Volumes](#), a block storage solution for Oracle Database software and data files
- Designed IOCTL handlers in Linux kernel for volume management operations (snapshot, resize etc.)
- Designed asynchronous upcalls and an Exascale service to manage volume metadata, that also supports failover
- Designed RPC & reverse-RPC based communication framework among Exascale services

Tata Research Development & Design Center

Systems Engineer in Research Unit of Tata Consultancy Services Ltd.

PUNE, MH, INDIA

AUG. 2015-APRIL 2016

- Trained in formal verification and validation using model checking
- Initiated research on [a polynomial-time approach to estimate worst-case execution times](#) of embedded apps

EDUCATION

Carnegie Mellon University, Pittsburgh, PA, USA

Master of Science in Electrical & Computer Engineering | GPA: 3.56/4.00

MAY 2018

- Research at [PDL](#) on memory performance optimization using program semantics; published in [ISCA'18](#)

Indian Institute of Technology Guwahati, Guwahati, AS, India

Master of Technology in Computer Science & Engineering | GPA: 9.16/10

JUNE 2015

- Thesis on Design of a Reconfigurable Communication Middleware for FlexRay-based ECUs; published in [RTCSA'15](#)

West Bengal University of Technology, Kolkata, WB, India

Bachelor of Technology in Computer Science & Engineering | GPA: 8.93/10

JULY 2013

- Thesis on Detection & Diagnosis of Rust Disease in Wheat Leaves using ANN; published in [WCI'15](#) and [FICTA'14](#)

Last updated on September 7, 2025