Diptesh Majumdar

diptesh.majumdar@gmail.com | (412) 499-4835 | [in] dipteshm | 🌐 kripon.com

Industry Experience

Microsoft   PITTSBURGH, PA, USA
Senior Software Engineer   OCT 2020 - PRESENT

- Developing Azure Stack Hub Storage services for on-premise, fully local and offline-capable, cloud deployments
- Developed cache volumes for Azure Container Storage enabled by Arc - Azure's caching solution for edge devices
- Developed token manager - a critical distributed file-system service that maintains cache-consistency
- Implemented ONCRPC, NFS & SMB protocols for HPC cache - Azure's caching solution for HPC applications
- Design and maintain automated unit, integration, end-to-end and performance testing frameworks
- Diagnose and resolve time-critical production incidents across OS, storage, and networking layers regularly

Oracle Corporation   NASHUA, NH, USA
Member of Technical Staff   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 such as snapshot and resize
- Designed HA volume metadata management for Exascale using async upcalls and RPC-based frameworks

Tata Research Development & Design Center   PUNE, MH, INDIA
Systems Engineer in Research Unit of Tata Consultancy Services Ltd.   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   MAY 2018
Master of Science in Electrical & Computer Engineering | GPA: 3.56/4.00

- Funded research at PDL on memory performance optimization using program semantics; published in ISCA'18

Indian Institute of Technology Guwahati, Guwahati, AS, India   JUNE 2015
Master of Technology in Computer Science & Engineering | GPA: 9.16/10

- Won DAAD scholarship to conduct research at TU Munich, Germany as an exchange student for 2 semesters
- Thesis on Design of a Reconfigurable Communication Middleware for FlexRay-based ECUs; published in RTCSA'15

West Bengal University of Technology, Kolkata, WB, India   JULY 2013
Bachelor of Technology in Computer Science & Engineering | GPA: 8.93/10

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

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