

Kyra (Qilan) Zhang

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WORK EXPERIENCE

Pure Storage - Member of Technical Staff

March 2020 - July 2022

System Software - Kernel Team

- **Active Cluster over Fibre Channel**
 - This project extended symmetric replication support over FC data path for high business availability with lower cost
 - Improved computing resource usage by refactoring replication operation mechanism
 - Developed test scripts, executed test plans, identified and debugged issues with QA team
 - Managed the merging of commit payloads from team branch to mainline branch
- **Non-disruptive upgrade with Distributed NVRAMs**
 - Designed and built a solution for using multiple namespaces per driver with NVMe reservation
 - Enabled local NDU for customers with the access from controllers to flashes through DirectFlash Shelf
 - Held information transfer session, developed internal documentations, and helped with integrated testing
- **NMVe over TCP**
 - This project provided high-performance data access with scalable and cost-effective standard IP networks
 - Participated in the design stage of the development cycle
 - Responsible for the implementation of the algorithm for allocating connection resources
- **Performance Evaluation**
 - Performed storage system performance evaluations using the benchmark system
 - Proposed ideas on improvement and implemented some of them
 - Compiled performance analysis results into customer-facing documents with product manager
- **Mainline Triage Rotation**
 - Investigated the product branch health issues as the team representative and kept across team communication
- **TCP/IP study group** coordinator and presenter
 - Organized company wide weekly study group for TCP/IP related topics
 - Presented on the DHCP (Dynamic Host Configuration Protocol) topic

SKILLS

- **Languages:** C++, Python, Javascript, Rust
- **Technologies:** Operating System, Computer Networking, Storage Systems

EDUCATION

Carnegie Mellon University

May 2022 - Present

Master of Science in Software Engineering

Current GPA: 4.0/4.0

- Relevant Coursework: Computer System, Foundations of Software Engineering, Software Verification and Testing, How to Write Fast Code, Information Security

University of Illinois at Urbana-Champaign

September 2017 - December 2019

Bachelor of Science in Statistics and Computer Science

Major GPA: 3.94/4.00

- Relevant Coursework: Art and Science of Web Programming, Database System, Algorithms and Models of Computation, Programming Languages and Compilers, Computer Architecture, Operating System, Software Design Studio, Numerical method, Applied Statistics with R, Statistical Computing
- Awards: Fall 2017, Spring 2018, Fall 2018, Spring 2019 Dean's List