

# ISAAC KHOR

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I am a PhD student with a focus in systems development – my current interests are in storage systems, distributed systems, kernel bypass, and Linux BPF applications.

## EXPERIENCE

### Research Intern; Cloudflare Inc — 2024

- Built an analysis pipeline for testing out different cache speculation models
- Reduced page load times by up to 50% on Cloudflare sites
- Analysed millions of customer sites for deployment of speculation models

### System Administrator; Intel Malaysia — 2021-2022

- Automated the provisioning and deployment of Perforce servers
- Managed the migration to a single unified server configuration source
- Deployed a distributed filesystem for configuration and data

### System Administrator; Clark University — 2019-2021

- Built custom modules control system with LMod on the HPC
- Built a job accounting system to enforce resource quotas on the HPC
- Managed CS autograder infrastructure and wrote some of the autograders
- Managed VM fleet for CS department

### Software Engineering Intern; Intel Malaysia — 2019

- Developed BPF packet filtering modules
- Submitted a patch to LinuxPTP incorporating in-kernel routing features
- Customised RT-App to demonstrate real-time capabilities of Intel platforms
- Wrote high-level documentation for unreleased Intel platform

## EDUCATION

### Northeastern University, MA — PhD in Computer Science, 2022 - current

- Currently focusing on large-scale storage systems and virtualization
- Actively working on a novel log-structured filesystem and virtual disks

## SKILLS

- Languages: C/C++, Python, Rust
- Linux kernel module development
- Administering RHEL and Ubuntu-based systems
- Working with real-time systems and Linux PREEMPT\_RT