

# Zuhair AlSader

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## EXPERIENCE

*Cloud Storage Engineer, [Koor.tech](#)* 11/2022 – 4/2024

- **Provided customer support** for Rook Ceph storage clusters.
- Developed a **data control center** for Rook using Protobuf and Nuxt
- Built a **Kubernetes operator** to simplify running Rook.
- **Wrote tutorials** about using Rook Ceph, and integrating with Knative

*Storage Software Engineer, [Seagate](#)* 11/2021 – 11/2022

Lead a team of 3 to design and test a C/C++ library that integrates Intel's **DAOS NVMe storage engine** with **Ceph's Rados** and **Seagate's CORTX** to support **Amazon's S3 API**. This makes it easier for S3 users to adopt DAOS and CORTX in a **flexible unified open-source** storage system.

*Software Engineer, [Tophatter](#)* 6/2021 – 11/2021

Used Ruby on Rails, ReactJS and React Native to introduce a new **tiktok-style video feed** and AB-test it, **improving revenue** by 13%

*Software Engineer, [Jerry.ai](#)* 6/2020 – 5/2021

- Used ReactJS and GraphQL to **improve CRM** for sales agents serving 200k+ users **reducing user processing time** by 20%.
- Moved legacy code from Kubernetes to **Serverless architecture**, improving scalability and code maintainability through a **monorepo**.

*Research Assistant, University of Waterloo* 9/2017 – 6/2020

- **Lead Research in distributed systems**, message queues and MPI. Experience with Kafka, RabbitMQ, Pulsar, ActiveMQ, Redis and others
- Teaching assistant for: Distributed systems and Operating Systems

*Lead Software Engineer, Endeavor Technology*

Nablus, Palestine, [endeavorpal.com](#); 6/2015 – 8/2017

**Lead a team** of 4 to develop a **web and mobile application** integrated with social media, SMS, and payment APIs. Used by 100+ customers.

## EDUCATION

**Masters in Computer Science; University of Waterloo, Canada**

Supervisors: Samer Al-Kiswany and Tim Brecht 2017 – 2020

Waterloo Advanced Systems Lab & Systems and Networking Group

Thesis: **Optimizing MPI Collective Operations for Cloud Deployments**

GPA: 90.50% (A+)

**BSc in Computer Engineering; An-Najah National University**

Nablus, Palestine; GPA: 3.76/4 with Honor 2012 – 2016

## PUBLICATIONS & WORKSHOPS

*Storage in Containers for Containers: an introduction to Rook Ceph, Ceph Days Vancouver, June 2023*

*One Big Happy Family: Sharing the S3 layer between Ceph, CORTX, and DAOS*, Z. AlSader and A. Tkachuk, EMOSS '22 Workshop on Emerging Open Storage Systems. In Proceedings of HPDC '22, 2022.

*COOL: A Cloud-Optimized Structure for MPI Collective Operations*, M. Alfatafta, Z. AlSader, S. Al-Kiswany, IEEE International Conference on Cloud Computing (CLOUD), 2018

## SKILLS

**Programming Languages:**

Go, C, C++, Ruby, Python  
JavaScript (+ TypeScript), Bash

**Storage technologies:** Rook, Ceph, Amazon S3 API, Intel DAOS, Seagate CORTX, Minio

**Web development:** Vue, Nuxt, Protobuf, Ruby on Rails, React, NodeJS, GraphQL, PostgresQL

**Systems:** Kubernetes, Serverless architecture, message-oriented middleware, linux cluster management, distributed and parallel systems, software-defined networking, system design and evaluation, systems security, android development

**Other:** Fast learner, team player, agile development, team management, git

## BLOG POSTS

[Running Serverless ML With Knative And Ceph](#)

[Serverless Storage With Knative And Ceph](#)

[If You Run Ceph With Only 3 Nodes, You Are Asking For Trouble](#)

## LANGUAGES

**Arabic:** Native

**English:** Fluent (TOEFL iBT 108)

## CLASSES

Advanced Distributed Systems, Empirical System Evaluation, Empirical Software Evolution, Randomized Algorithms, Quantum Algorithms, Quantum Information Processing, Quantum Error Correction and Fault Tolerance