

Zuhair AlSader

Waterloo, ON, Canada

+1 519-781-9150
zalsader@hotmail.com
github.com/zalsader
linkedin.com/in/zalsader

EXPERIENCE

Software Engineer, [Devzero.io](https://devzero.io)

4/2024 – Now

- Integrated **Rook Ceph** storage system into Devzero workspaces replacing AWS EBS, EFS and S3, & **reducing storage costs by 60%**
- Introduced **OpenFGA** with **Tailscale's network acls** to control access to resources allowing the company to **serve enterprise customers**.

Cloud Storage Engineer, [Koor.tech](https://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](https://seagate.com)

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](https://tophatter.com)

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](https://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](https://uwaterloo.ca)

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](https://endeavorpal.com)

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](https://uwaterloo.ca)

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](https://www.an-najah.edu)

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 <https://youtu.be/yLw9MwJgmfA>

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

Storage technologies: Rook,

Ceph, Amazon S3 API, Intel DAOS, Seagate CORTX, Minio

Web development: Django,

OpenAPI, Protobuf, Ruby on Rails, NodeJS, GraphQL, PostgresQL

Systems: Kubernetes, K8s

operators, Kata containers

OpenFGA, Tailscale, Headscale,

Serverless architecture,

message-oriented middleware, linux

cluster management, distributed

and parallel systems, software-

defined networking, system design

and evaluation, systems security

Other: Fast learner, team player,

agile development, Writing docs and

blog posts, team management, git,

Continuous Integration (CI/CD),

gitops, Github Actions

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