Zuhair AlSader

Toronto, ON, Canada

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

EXPERIENCE

Storage Software Engineer, Seagate   11/2021 – Now
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

MMath 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

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 and Solutions for Data Intensive Computing. 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

AWARDS & ACTIVITIES

- Maintained **Honors Degree** throughout my study at ANNU.
- **IEEEXtreme** Programming Contest, **83rd** place worldwide, 2014
- **Chair of IEEE Student Branch** in UWaterloo 2018 - 2019
- **Local Lead and Mentor at NASA Space Apps Challenge** Palestine, 2016 & 2017. Organized a hackathon with **40+ attendees**

SKILLS

Programming Languages:
C, C++, JavaScript (+ TypeScript), Ruby, PHP, Python, Java, Bash

Storage development: Amazon S3 API, Ceph, Intel DAOS, Seagate CORTX, Minio

Web development: React, NodeJS, GraphQL, PostgreSQL, CakePHP

Systems: 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

PERSONAL PROJECTS

Swarmy: programmable swarm robots for children.
Think Like A Programmer: pseudocode contest platform.
ViPolis: a platform for augmented reality geo-mapped art
Facemoji: Type emoji using facial expressions
Others on Github: @zalsader.

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