

# Zuhair AlSader

356 Anatolin Pl.  
Waterloo, ON, Canada  
N2L 5G8

+1 519-781-9150  
zalsader@uwaterloo.ca  
cs.uwaterloo.ca/~zalsader  
github.com/zalsader  
linkedin.com/in/zalsader

## EDUCATION

**MMath in Computer Science; University of Waterloo, Canada**  
Supervisors: S. Al-Kiswany and T. 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 2012 – 2016  
**GPA: 3.76/4 with Honor**

## PUBLICATIONS

*Optimizing MPI Collective Operation for Modern Data Centers*,  
Z. AlSader, M. Alfatafta, T. Brecht, S. Al-Kiswany, Cluster Computing,  
under review, 2020

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

## EXPERIENCE

*Research and Teaching Assistant, University of Waterloo*  
Waterloo, Canada, [uwaterloo.ca](http://uwaterloo.ca); 9/2017 – Now  
Conduct **research in distributed systems**, message queues and MPI  
Teaching assistant for CS464 (Distributed systems), CS350 (Operating  
Systems), and CS251 (Computer Organization and Design)

*Lead Software Engineer, Endeavor Technology*  
Nablus, Palestine, [endeavorpal.com](http://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.

## HONORS & AWARDS

- Maintained **Honors Degree** throughout my study at ANNU.
- **2nd** place at New York University Abu Dhabi (**NYUAD**) **Hackathon** for Social Good in the Middle East; Abu Dhabi, 2016
- **IEEEXtreme** Programming Contest, **83rd** place worldwide, **1st** team in university 2014
- **ACM** Palestinian Collegiate Programming Contest (PCPC): **1st** place (2015), **2nd** place (2013)

## ACTIVITIES

- **Chair of IEEE Student Branch** in UWaterloo 2018 - 2019
- **Local Lead and Mentor at NASA Space Apps Challenge** Palestine, 2016 & 2017. Organized a hackathon attended by **40+ hackers**
- **Chair of IEEE Computer Society** at ANNU, 2015, organized a local IEEEXtreme contest attended by **50+ students** and other events.
- **Chair of IEEE Grand Tech 2016**; Lead a **team of 15 students** to organize a technical conference with **500+ attendees**

## SKILLS

**Programming Languages:**  
C, C++, PHP, JavaScript, Python, Java, Bash, Ruby

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

**APIs & Integrations:** Facebook, Stripe, Twilio, Twitter, Sentry

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

## 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](https://github.com/zalsader).

## LANGUAGES

**Arabic:** Native

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

**French:** Novice

**Spanish:** Novice

## CLASSES

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