

# Mohammed Alfatafta

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Cheriton School of Computer Science  
University of Waterloo  
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## EDUCATION

- Aug 2017 – Sep 2019 (Expected)    **MMath, Computer Science, University of Waterloo, Canada**
- Part of the Distributed Systems Lab (DSL) supervised by Prof. Samer Al-Kiswany
  - GPA: 93.5 % (**A+**)
- Sep 2012 – May 2017    **BSc., Computer Systems Engineering, Palestine Polytechnic University, Palestine**
- 1<sup>st</sup> in class
  - GPA: 90.9% (**Honours**)

## HONOURS AND AWARDS

- IEEE Services Congress Student Travel Award, 2018.
- University of Waterloo Entrance Scholarship, 2017. Value: \$4000.
- First place in ACM-ICPC Palestine National Collegiate Programming Contest (2016, 2014, 2013).
- First place in Palestine Informatics Olympiad, 2011.

## EXPERIENCE

- Sept 2017 – Present    **Research and Teaching Assistant**, University of Waterloo, Canada  
Working as a teaching assistant for undergraduate courses, such as functional programming and sequential programming. I am also involved in various research projects under the supervision of Prof. Samer Al-Kiswany.
- Feb 2017 – Aug 2017    **Software Engineer**, Itqan Co., Palestine  
Led a team of developers in developing an accounting information system using different technologies, including C#.net, MySQL and RDL reports.
- Jan 2016 – Jul 2016    **Research Intern**, University of California, Los Angeles (UCLA), CA  
Worked with Professor Adnan Darwiche in his Automated Reasoning research group. My research was focused on logical reasoning and knowledge compilation.
- May 2014 – Dec 2014    **Software Engineer**, Itqan Co., Palestine

## PUBLICATIONS

- 2018    An Analysis of Network-Partitioning Failures in Cloud Systems. A. Alquraan, H. Takruri, **Mohammed Alfatafta**, & S. Al-Kiswany. 2018 Operating Systems Design and Implementation (OSDI 2018). (acceptance rate: 17%)
- 2018    COOL: A Cloud-Optimized Structure for MPI Collective Operations. **Mohammed Alfatafta**, Zuhair AlSader & Samer Al-Kiswany. IEEE International Conference on Cloud Computing (CLOUD). (acceptance rate: 20%)
- 2017    CoMon++: Preventing Cache Pollution in NDN Efficiently and Effectively. H. Salah, **Mohammed Alfatafta**, S. SayedAhmed, & T. Strufe. IEEE (42nd IEEE Conference on Local Computer Networks, LCN). (acceptance rate: 28%)

## CERTIFICATES

Jun 2013 – Jul 2015 **Student at Ibn Sina school for Computer Science, Ramallah (Palestine)**

- **Advanced Algorithms** by **Elias Koutsoupas**, University of Oxford, UK
- **Probability for Computer Scientists** by **Hendrik Blockeel**, KU Leuven, Belgium
- **Heuristic Search in Artificial Intelligence** by **Blai Bonet**, Universidad Simon Bolívar, Venezuela
- **Fundamentals of Database Systems** by **Amr El Abbadi**, University of California, Santa Barbara, USA
- **Discrete Mathematics** by **Karem Sakallah**, University of Michigan, USA
- **Problem Solving in C** by **Gilles Audemard**, University of Artois, France
- **Programming with Data Structures** by **Laurent Simon**, Paris-Sud University, France
- **Algorithms and Data Structures** by **Parosh Abdulla**, Uppsala University, Sweden

## COMMUNITY SERVICES

Jul 2018 **IEEE Services Congress session chair**

Jul 2018 **IEEE Services Congress student volunteer**

Aug 2017 **International Olympiad in Informatics (IOI) 2017 Team Leader**

Was in charge of training the team representing Palestine in IOI 2017, and was a member of IOI's General Assembly (GA).

May 2014 – Aug 2017 **Competitive programming coach**

Volunteered as a competitive programming coach for many students in my University.

Sep 2016 – Aug 2017 **English language circle organizer**

Organized weekly English language circle meetings for my university's students.

## COMPUTER SKILLS

- **Highly experienced** in C#, C++ and C.
- **Proficient** in Java, Android development, Python and MySQL databases.
- **Familiar** with VB.net, LISP, Racket, HTML, CSS and JavaScript