

# Nabil Abubaker

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- EDUCATION**
- Ph.D. Candidate**, Computer Engineering, Sept. 2016 - Now  
Bilkent University, Ankara, Turkey  
CGPA: 3.71/4.0
- M.Sc.**, Computer Engineering, Sept. 2014 - Aug. 2016  
Bilkent University, Ankara, Turkey  
Thesis Title : *Reordering Methods for Exploiting Spatial and Temporal Localities in Parallel Sparse Matrix-Vector Multiplication*  
CGPA: 3.61/4.0
- B.Sc.**, Computer Engineering, Sept. 2009 - May 2014  
An-Najah National Univeristy, Nablus, Palestine  
CGPA: 3.31/4.0
- RESEARCH INTERESTS** Parallel Computing, High Performance Computing, Combinatorial Scientific Computing
- PUBLICATIONS**
1. Nabil Abubaker, Seher Acer and Cevdet Aykanat. "True Load Balancing for Matricized Tensor Times Khatri-Rao Product." *In IEEE Transactions on Parallel and Distributed Systems*, vol. 32, no. 8, pp. 1974-1986 , 1 Aug. 2021.
  2. Nabil Abubaker, Kadir Akbudak and Cevdet Aykanat. "Spatiotemporal Graph and Hypergraph Partitioning Models for Sparse Matrix-Vector Multiplication on Many-Core Architectures." *In IEEE Transactions on Parallel and Distributed Systems*, vol. 30, no. 2, pp. 445-458, 1 Feb. 2019.
  3. Nabil Abubaker, Leonard Dervishi, and Erman Ayday. "Privacy-Preserving Fog Computing Paradigm". *In the 3rd Workshop on Security and Privacy in the Cloud (SPC) - co-allocated with the IEEE CNS'17 , Las Vegas, NV, USA, 2017.*
- TECHNICAL SKILLS**
- Languages:* C, C++, Java, C#, PHP  
*Scripting:* Bash, Python, JavaScript, L<sup>A</sup>T<sub>E</sub>X  
*HDLs:* VHDL, Verilog  
*Microcontrollers:* PIC18, PIC32, Arduino  
*Others:* Matlab, SQL.
- TEACHING EXPERIENCE**
- Teaching Assistant* Sept. 2014 - Now  
Bilkent University, Ankara, Turkey.  
Responsibilities include Lab instruction and grading, grading of quizzes and programming assignments, assisting and evaluating projects.
- CS473 - Algorithms I
  - CS223 - Digital Design
  - CS201/2 - Fundamental Structure of Computer Science I & II
  - CS114 - Introduction to programming for Engineers

- CS101/2 - Algorithms and Programming I & II

*Part-time Instructor*

Jan - May 2021

An-Najah National University, Palestine.

I taught "Computer Architecture II" course remotely.

**PROFESSIONAL EXPERIENCE** *Software Engineer (Part-time)*  
Etgi Grup, Ankara, Turkey.

Jan. 2017 - Jan. 2018

- Investigating, Implementing and Integrating several services for the company's products: Vedubox([www.vedubox.com/en](http://www.vedubox.com/en))

*Software Engineer*

Summer 2014

Sina Research Institute, Birzeit University, Ramallah, Palestine

- Developed a new front-end interface for the data entry and management system for the Arabic Ontology Research group.

*Software Engineering Intern*

Summer 2013

Exalt Technologies, Ramallah, Palestine

**EXTRA-CURRICULAR ACTIVITIES**

- Served As IEEE An-Najah Student Branch Vice-Chairman ( 2012 )
- Participated in IEEEExtreme competition 5.0, 6.0, 7.0 and 8.0 (2011,2012, 2013, 2014). *We got the 2<sup>nd</sup> place among Palestinian teams in 2013.*
- Co-founded and co-organized the first Palestine Programming Olympiad event (PPO), a 24-hours programming competition for Palestinian Students and Young Professionals. (July 2012)
- Participated in "Startup Weekend Nablus", Nablus, Palestine. ( 2012 )

**NON-TECHNICAL SKILLS**

Spoken Languages:

- Arabic (Native)
- English (Fluent)
- Turkish (Intermediate)

Graphic Design: Adobe Photoshop (Good), Autodesk 3D Max (Intermediate)

Hobbies: volleyball, cooking, photography and Graphic design.

**AWARDS**

- Bilkent University tuition waiver & full support scholarship for MSc and PhD studies.
- The CocaCola - Injaz exchange program scholarship award - 2012/2013
- Ranked 1st in province and 7th country-wide in nation-wide high school diploma exams - industrial stream.

**CONFERENCES ATTENDED** ICS'16 - International Conference on Supercomputing - Istanbul, Turkey (June, 2016)

IEEE Middle East Student Branches Congress (MESBC) - Amman, Jordan (August, 2015)