

Kéren Audrey Ouaknine

CONTACT INFORMATION *E-mail:* kereno@gmail.com
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EXPERIENCE

Redis Labs, 2016 - 2017

Senior Big Data Architect.

Managing large-scale projects related to the performance and optimization of Redis on Flash.

TAVTech Chief Instructor, 2015 - 2017

Instructor on Big Data related topics: Hadoop, Pig, Hive, and other NoSQL technologies.

Research Scholar, Systems Dept. of UC Irvine, 2013-15

Development and optimization of AsterixDB

EMC Herzelya, 2012

Unification of optimization Pig and Hive based on Algebricks (internship).

HPCC Systems LexisNexis Florida, 2011

Development of the Machine Learning library for HPCC Systems.

Performance analysis of HPCC Systems and Pig/Hadoop.

Intel, Jerusalem, 2007-10

Software Engineer. Development of the Active Management Technology (AMT),

vPro provisioning services. Skills: Networks, Security, Databases, GUI

Teacher Assistant 2005-2006

Functional Programming course. Conducting lectures and handling exercises/exams

Hebrew University, Jerusalem

Teacher and Project Mentor 2005 - 2006

Computer Science teacher and project mentor. Main language: Java

Middle East Education through Technology (M-E-E-T) in collaboration with MIT.

EDUCATION

Ph.D. in Computer Science, 2010-2017

Optimization of Big Data Systems, advisor Prof. Scott Kirkpatrick

Hebrew University, Jerusalem

M.Sc. in Computer Science, 2007

Performance Evaluation at the Parallel Computing Lab, advisor Prof. Dror Feitelson

Hebrew University Jerusalem

B.Sc in Computer Engineering, 2004

Polytech Nice Sophia, France

Exchange year at the Technion, Israel

PUBLICATIONS

ICCD A 2017, Lakeland Florida

"Optimization of RocksDB for Redis-on-Flash"

ADBIS 2017, Cyprus Greece

"Optimization of AsterixDB"

Big Data Congress 2015, Manhattan NY

"The PigMix Benchmark on Pig, MapReduce, and HPCC Systems"

MASCOTS 2007, Istanbul Turkey

”Reducing Performance Evaluation Sensitivity and Variability by Input Shaking”

PhD thesis: Optimization of Big Data Systems

Master thesis: Performance evaluation of job schedulers

LANGUAGES

French: Natal tongue

Hebrew: Excellent

English: Excellent

HONORS AND AWARDS

Google Europe Anita Borg Scholarship, Zurich 2007

Google Travel Grant, March 2012

FLOSS UK. Open Source Systems, Edinburgh.

COMPUTER SKILLS

Programming Languages: Java, C++, Scheme, Perl, Python.

Operating Systems: Linux & Windows.

RECOMMENDATION **LinkedIn:** <https://www.linkedin.com/in/kereno>

Recommendation by Yiftach Shoolman, CTO of Redis Labs and direct manager:

”Keren has been working at Redis Labs since January 2016 as a Senior Big Data Architect. Redis Labs is the company behind Redis - the open source in-memory database known as the fastest database on earth. Keren is responsible for optimizing, analyzing, benchmarking and tuning Redis on Flash (RoF), Redis Labs flagship product. Keren is also responsible for benchmarking our products on leading partners platforms such as IBM P8+CAPI, Samsung NVMe, Intel NVMe, and EMC VMAX. Her success in this regard has provided real business value to Redis Labs. While working on Redis on Flash, Keren gained a strong expertise with RocksDB, the storage engine developed by Facebook and used by RoF to store datasets on SATA- and NVMe-based SSD. Keren has a rare combination of skills: she is sharp, hard worker, technically savvy and really fun to work with!”

Recommendation from Phil Hayes, founder of TAVTech:

”Keren was the first instructor we hired for TAVtech, an Israel-based, non-profit fellowship for student entrepreneurs from around the world. After a couple of phone calls with Keren, it became clear to me that we not only found a stellar candidate for our instructor position, but someone we could confide in to help us navigate the complexities of constructing a brand-new international program.

Keren developed a remarkable curriculum for our module on big data. In just one week, Keren challenged a class of 20 students, many of whom had never written a line of code or used a command line before, with a curriculum consisting of launching a local NoSQL database, learning the syntax of a database querying language, constructing schemas, and even connecting to an Amazon Elastic MapReduce instance and constructing/running queries on top of a Hadoop cluster. Keren is an excellent instructor - the students absolutely adore her.

Keren brings with her a rare mix of passion, dedication, and execution power. She is brilliant, yet she is able to boil down her mastery of complicated concepts into simple terms. Keren is relentlessly optimistic and, faced with a difficult challenge, she proves her determination and ability to push forward. After successfully teaching the course in Israel, Keren continues to support us as our Curriculum Advisor, helping us to build a powerful program that keeps students consistently engaged and always learning.

Keren is an entrepreneurial leader, able to iterate upon her lesson plans and ensure that she is always providing the most impactful and inspiring lessons to her students. More than anything, Keren is a pleasure to work with. She is selfless, kind, and caring - the type of person anybody wants to know. Im grateful for the opportunity to work with Keren. She improves everything she touches and has forever left a positive imprint upon TAVtech.”