

# Zacharias Georgiou

## PERSONAL DATA

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## WORK EXPERIENCE

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| 16 JAN 2017- CURRENT | <p><i>Researcher at LINC Lab, University of Cyprus</i></p> <p>I work at the Laboratory of Internet Computing at the University of Cyprus. The laboratory, focuses its research activities in the areas of Cloud and Grid computing, Web data management and Vehicular computing. I am currently working on a project funded under the Horizon 2020 framework, named RAINBOW. RAINBOW is a novel framework for Fog services development, orchestration, deployment and continuous management. Previously I worked on a project funded under the Horizon 2020 framework, named UNICORN. UNICORN is a novel framework for multi-cloud services development, orchestration, deployment and continuous management.</p> |
| 07 JUN- 29 JUL 2016  | <p><i>Summer Internship at XM Company , Limassol, Cyprus</i></p> <p>I've been introduced to functional programming concepts and software design patterns. I developed an open-source library written in Elm (<a href="https://github.com/zgeorg03/table-elm">https://github.com/zgeorg03/table-elm</a>) for a generic html table with sorting, pagination, filtering and some other useful functionalities.</p>   |
| 21 MAY- 05 JUN 2016  | <p><i>Internship at HUAWEI Company , Beijing &amp; Shenzhen, China</i></p> <p>Participated in a two weeks program called "Seeds for the future" organized by Huawei. I trained at Huawei's campus on their networking equipment in Shenzhen. The training consisted of various lectures and practice on real hardware in Mobile Internet Application Development Trend, Intelligent Network Application and Development Trend and Cloud Pipe Devices.</p>   |
| JAN-JUN 2016         | <p><i>Research at DMSL Lab , University of Cyprus</i></p> <p>My work was about developing a simulator using Java in order to compare different algorithms for prefetching data, for indoor navigation in intermittently connected wifi networks. The prefetching technique fetches the paths that a user is more likely to navigate, when connection exists. When connection is lost, the prefetched data can improve accuracy.</p>   |
| JUN-AUG 2015         | <p><i>Summer Internship at SEIT Lab, University of Cyprus</i></p> <p>My work was about developing a Universal Remote Controller. URC offers the ability to control home appliances that support infrared technology, from any place using the internet. I developed a small web server using Flask microframework, running on raspberry Pi, which you could record infrared signals(air-condition, tv), store them in a database(MySQL) and transmit them remotely using the web site.</p>  |
| SUMMER 2014          | <p><i>Summer Internship at Xi Lab, University of Cyprus</i></p> <p>My job was to find the representative regions of SPEC CPU 2006 benchmarks suit using pin tool and simalpha (cycle accurate CPU simulator). The representative region of a benchmark is block of code that has specific properties. Condor, gnuplot and some basic commands in linux were used during this internship.</p>  |

## EDUCATION

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- EXPECTED 2023 Phd in COMPUTER SCIENCE, **University of Cyprus**, Nicosia  
Supervisors: Prof. Marios DIKAIKAKOS & Prof. George PALLIS
- FEB 2020 Master Degree in COMPUTER SCIENCE, **University of Cyprus**, Nicosia  
**Thesis:** “*StreamSight: A Query-Driven Framework for Streaming Analytics in Edge Computing*” | Advisor: Prof. George PALLIS
- JUN 2017 Undergraduate Degree in COMPUTER SCIENCE, **University of Cyprus**, Nicosia  
**Thesis:** “*Characterizing the Popularity, Virality and Sentimentalism of Video Content Categories on YouTube and Twitter*” | Advisor: Prof. George PALLIS  
GPA: 8.59/10 [| Detailed List of Lessons](#)
- AUG - JAN 2015 Exchange Semester at **University of Groningen**, Netherlands  
GPA: 7.70/10 [| Detailed List of Lessons](#)
- JUN 2011 **Aradippou Lyceum** , Larnaca | Final Grade: 9.46/10

## SELECTED PUBLICATIONS

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- 2019 - “**Query-Descriptive Analytics for IoT and Edge Computing**”, Moysis Symeonides, Demetris Trihinas, Zacharias Georgiou, George Pallis and Marios D. Dikaiiakos, IEEE International Conference on Cloud Engineering (IC2E), 2019.
- 2018 - “**StreamSight: A Query-Driven Framework for Streaming Analytic in Edge Computing**”, Zacharias Georgiou, Moysis Symeonides, Demetris Trihinas, George Pallis and Marios D. Dikaiiakos, 11<sup>th</sup> IEEE/ACM Conference on Utility and Cloud Computing, 2018.
- 2018 - “**IoT Data Prefetching in Indoor Navigation SOAs**”, Andreas Konstantinidis, Panagiotis Irakleous, Zacharias Georgiou, Demetrios Zeinalipour-Yazti and Panos K. Chrysanthos, ACM Transactions on Internet Technology (TOIT '18), pp. 20 pages, 2018.
- 2017 - “**Improving Rule-Based Elasticity Control by Adapting the Sensitivity of the Auto-Scaling Decision Timeframe**”, Demetris Trihinas, Zacharias Georgiou, George Pallis and Marios D. Dikaiiakos, “*Third International Workshop on Algorithmic Aspects of Cloud Computing (ALGO CLOUD 2017)*, in conjunction with the ALGO 2017 Conference” (ALGO 2017 Conference), Vienna, Austria, 2017

## SELECTED EVENTS ATTENDED

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- 16-20 DEC 2018 UCC18 - 11<sup>th</sup> IEEE/ACM Conference on Utility and Cloud Computing, Zurich, Switzerland  
*Presented the work “StreamSight: A Query-Driven Framework for Streaming Analytic in Edge Computing”*
- 2-4 JUL 2018 16<sup>th</sup> Hellenic Data Management Symposium, Larnaca, Cyprus  
*Presented the work “Improving Rule-Based Elasticity Control by Adapting the Sensitivity of the Auto-Scaling Decision Timeframe”*
- 5 SEP 2017 ALGO2017 - The 3rd International Workshop on Algorithmic Aspects of Cloud Computing, Vienna, Austria  
*Presented the work “Improving Rule-Based Elasticity Control by Adapting the Sensitivity of the Auto-Scaling Decision Timeframe”*
- 25-30 JUN 2017 SummerSoc - The 11th Symposium and Summer School On Service-Oriented ComputingCloud Computing, Crete, Greece  
*Presented a Poster “Fine-grained Elasticity Control Framework for the Cloud”*

## OTHER ACTIVITIES

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- 2020 - Reviewer at the IEEE Transactions on Cloud Computing (TCC) journal
- 2020 - Reviewer at the 20<sup>th</sup> International Symposium on Cluster, Cloud, and Internet Computing (CC-GRID)
- 2020 - Reviewer at the 2020 IEEE International Conference on Fog Computing (ICFC)
- 2019 - Reviewer at the 39<sup>th</sup> International Conference on Distributed Computing Systems (ICDCS) on the Edge Computing research track.

## AWARDS AND CERTIFICATES

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- FEB 2020 1<sup>st</sup> place in the 1<sup>st</sup> Cybersecurity-Cyberdefence Hackathon in Cyprus with the platform "Veracity", (Nicosia, Cyprus)
- APR 2019 Winner of the People's Choice Award of the 4<sup>th</sup> Innovation & Entrepreneurship Forum with the project "StreamSight", (Nicosia, Cyprus)
- SEP 2018 1<sup>st</sup> place in OpenData Hackathon Cyprus competition with team ProlepSYS  
Also winners of the Smart City challenge, (Limassol, Cyprus)
- MAY 2011 CCNA Discovery: "Working to a SmalltoMedium Business or ISP"
- DEC 2010 CCNA Discovery: "Networking for home and small businesses"
- JUN 2010 IGCSE English Language | Grade: C
- JUN 2010 IGCSE Computers | Grade: B
- MAY 2010 2<sup>nd</sup> Pancyprian Award in TEKE (Institute of Technology)
- APR 2010 3<sup>rd</sup> Pancyprian Award in Logipaignion (University of Cyprus)

## LANGUAGES

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GREEK, ENGLISH

## SKILLS

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Programming Languages: Java, Scala, Python, C, Javascript  
Databases: MySQL, Postgres MongoDB, Cassandra, Couchbase  
Development Tools : Git, IntelliJ, Eclipse, Vim  
Big Data Processing Frameworks: Apache Spark, Apache Kafka  
Web Frameworks: SpringBoot, Flask, Angular  
Cloud Tools/Platforms: Kubernetes, Docker Swarm, AWS Cloud, Google Cloud Platform, Openstack, Docker

## INTERESTS

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Cloud Computing, Fog Computing, Big Data Analytics, Distributed Systems, Statistical Learning, Reinforcement Learning, Philosophy