

# CHRYSOVALANTIS ANASTASIOU

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## EDUCATION

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| <b>Los Angeles, California</b>  | <b>University of Southern California</b> | <b>Expected May 2022</b> |
| <ul style="list-style-type: none"><li>• Ph.D. in Computer Science, Current GPA: 3.89/4.0</li><li>• <u>Research Interests</u>: spatial-temporal data management &amp; analytics, databases, distributed systems, IoT</li></ul>   |  |                          |
| <b>Los Angeles, California</b>  | <b>University of Southern California</b> | <b>Received May 2017</b> |
| <ul style="list-style-type: none"><li>• M.Sc. in Computer Science, Data Science, GPA: 3.88/4.0 (<i>Fulbright Scholar</i>)</li><li>• <u>Coursework</u>: Analysis of Algorithms, Geospatial Information Management, Machine Learning, Artificial Intelligence</li></ul> |  |                          |
| <b>Nicosia, Cyprus</b>  | <b>University of Cyprus</b>              | <b>Received Jun 2015</b> |
| <ul style="list-style-type: none"><li>• B.Sc. in Computer Science, GPA: 9.15/10 (Ranked 1st in class out of 83)</li><li>• <u>Coursework</u>: Advanced Topics in Databases, Data Structures, Systems Programming, Data Mining in the Web</li></ul>                     |  |                          |

## PUBLICATIONS

- “*Time-Dependent Reachability Analysis: A Data-Driven Approach*,” **C. Anastasiou**, C. Huang, S.H. Kim, and C. Shahabi, 20th IEEE International Conference on Mobile Data Management (MDM), 2019.
- “*MRCubes: On-the-fly Computation of Location Popularity from Check-in Data Streams*,” G. Constantinou, **C. Anastasiou**, D. Stripelis, C. Shahabi, 20th IEEE International Conference on Mobile Data Management (MDM), 2019.
- “*Extending Apache Spark with a Mediation Layer*”, Dimitris Stripelis, **Chrysovalantis Anastasiou**, and Jose Luis Ambite, Semantic Big Data Workshop, SIGMOD, June 10, Houston, TX USA, 2018.
- “*Rayzit: An Anonymous and Dynamic Crowd Messaging Architecture*”, Constantinos Costa, **Chrysovalantis Anastasiou**, Georgios Chatzimilioudis and Demetrios Zeinalipour-Yazti, Proceedings of the 3rd IEEE International Workshop on Mobile Data Management Mining and Computing on Social Networks collocated with IEEE MDM '15 (Mobisocial '15), Volume 2, Pages: 98-103, Pittsburgh PA USA, 2015.

## SKILLS & TECHNOLOGIES

- *Programming Languages*: Java, Scala, C/C++, Python, Kotlin, HTML5, CSS, JavaScript, PHP
- *Frameworks / SDKs*: Apache Spark, Map Reduce, iOS, Android
- *Database Management Systems*: Microsoft SQL Server, MySQL, Couchbase, MongoDB, PostgreSQL

## WORK EXPERIENCE

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|--|---|----------------------------|
| <b>Software Engineering Intern</b>   | <b>Google Inc., Mountain View</b>               | <b>May 2019 – Aug 2019</b> |
| <ul style="list-style-type: none"><li>• Design and implementation of a major Data Management component for a new Google Cloud vertical product.</li><li>• Improvement of the product's testing infrastructure.</li></ul>   |   |                            |
| <b>Software Engineering Intern</b>   | <b>Google Inc., Mountain View</b>               | <b>May 2018 – Aug 2018</b> |
| <ul style="list-style-type: none"><li>• Research in Earthquake detection using smartphone sensor data.</li><li>• Designed and developed a modular toolset for ingesting public seismic data.</li></ul>   |   |                            |
| <b>Research Assistant</b>  | <b>IMSC, Viterbi School of Engineering, USC</b> | <b>Aug 2017 –</b>          |
| <ul style="list-style-type: none"><li>• ADMS: Archived Transportation Data Management System.</li><li>• Intelligent IoT Integrator: A marketplace for IoT data streams.</li><li>• Agora: A Spatial-Temporal Index for real-time Approximate Location Popularity in Multiple Resolutions.</li></ul>   |   |                            |
| <b>Software Engineering Intern</b>   | <b>Bloomberg LP, New York</b>                   | <b>Jun 2017 – Aug 2017</b> |
| <ul style="list-style-type: none"><li>• Software Infrastructure / Systems Cache Infrastructure<ul style="list-style-type: none"><li>• Improved performance of company's internal local cache framework and added new features.</li><li>• Developed a benchmarking framework for all types of cache systems.</li><li>• Designed and implemented a module for suggesting optimal cache configuration parameters.</li></ul></li></ul> |   |                            |
| <b>Software Engineering Intern</b>   | <b>Bloomberg LP, New York</b>                   | <b>Jun 2016 – Aug 2016</b> |
| <ul style="list-style-type: none"><li>• Software Infrastructure / Systems Cache Infrastructure<ul style="list-style-type: none"><li>• Integration of in-house database's new features with the internal Tiered Cache Framework.</li><li>• Automated the deployment of Tiered Cache framework.</li></ul></li></ul>  |   |                            |
| <b>Software Engineer<br/>iOS Lead Developer</b>  | <b>Funifi LTD (startup), Cyprus</b>             | <b>Aug 13 – Jul 2015</b>   |
| <ul style="list-style-type: none"><li>• Collaborated cheerfully with the iOS team in developing Funifi DO, the company's core app.</li><li>• Backend Servers management, website maintenance, office network administration.</li></ul>   |   |                            |

Research Assistant

Data Management Systems Laboratory, UCY

Sep 2013 – Jul 2015

- **Thesis: “TelcoWare: An Extensible Big Data Processing Architecture for the Telecom Industry”**
  - Designed the overall architecture of the system.
  - Implemented data connectors on Apache Spark for ingestion.
  - Developed a module to store data and analytics in Couchbase.
- Implemented an iOS spatial data management engine for the major GIS company in Cyprus (AppStore).
- **Rayzit: A crowd messaging application that delivers your questions, inquiries and ideas to the closest users around**
  - Implemented a complete iOS stack for the award-winning application.

Research Assistant

Laboratory of Internet Computing, UCY

Apr 2013 – Aug 2013

- **CELAR: Automatic, multi grained elasticity – provisioning for the Cloud**
  - Developed an aggregation and statistics Web API module for the servers monitoring.
  - Implemented a simple web UI for the servers' stats.

#### CONFERENCES & PANELS

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- Appointed Officer & Organizing committee member, ACM SIGSPATIAL Sep 2017 -
- Evaluator, 7th National Logipaignion Contest for Elementary and High School Students, <http://logipaignion.cs.ucy.ac.cy/2015> Apr 2015
- Panel Member, ICT Conference, Nicosia, Cyprus Oct 2013

#### OTHER ACADEMIC EXPERIENCE

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- **UCYApp:** Bringing together all the services of University of Cyprus in a single mobile app.
  - Led team of 5. Designed the architecture. Developed the web and iOS stacks.
- **NearFieldCare:** A single tap can save your life (Imagine Cup 2013)
  - Worked on the complete Windows Phone stack of the project.

#### AWARDS & ACHIEVEMENTS

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- IEEEExtreme 8.0 programming competition, ranked 108<sup>th</sup>/1700 teams worldwide
- Fulbright Student Scholarship recipient for graduate studies in USA (Fall 2015)
- ACM SIGMOD 2014 Programming Contest, ranked 4<sup>th</sup> nationwide and 13<sup>th</sup>/33 teams worldwide
- Microsoft Imagine Cup 2013 World Wide finalist and National Winner
- Won a place at the Ice Climate Education campus in 2008, an international youth campus that took place in Iceland.