

CHRYSOVALANTIS ANASTASIOU

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EDUCATION

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| Los Angeles, California | University of Southern California | Expected December 2021 |
| <ul style="list-style-type: none">• Ph.D. in Computer Science, Current GPA: 3.89/4.0• <u>Research Interests</u>: spatial-temporal data management, spatial analytics, databases, distributed systems, IoT | | |
| Los Angeles, California | University of Southern California | Received May 2017 |
| <ul style="list-style-type: none">• M.Sc. in Computer Science, Data Science, GPA: 3.88/4.0 (Fulbright Scholar)• <u>Coursework</u>: Analysis of Algorithms, Geospatial Information Management, Machine Learning, Artificial Intelligence | | |
| Nicosia, Cyprus | University of Cyprus | Received Jun 2015 |
| <ul style="list-style-type: none">• B.Sc. in Computer Science, GPA: 9.15/10 (Ranked 1st in class out of 83)• <u>Coursework</u>: Advanced Topics in Databases, Data Structures, Systems Programming, Data Mining in the Web | | |

SKILLS & TECHNOLOGIES

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

WORK EXPERIENCE

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|---|---|----------------------------|
| Research Intern | Google Inc., Mountain View | May 2020 – |
| <ul style="list-style-type: none">• Understanding the language of hashtags through Natural Language Processing and more• Designing and training NLP models for user-generated hashtag datasets | | |
| Software Engineering Intern | Google Cloud, Sunnyvale | May 2019 – Aug 2019 |
| <ul style="list-style-type: none">• Automatic matching of arbitrary schemata to universal schemata• Schema-agnostic SQL processing and ML models | | |
| Software Engineering Intern | Google Inc., Mountain View | May 2018 – Aug 2018 |
| <ul style="list-style-type: none">• Research in Earthquake detection using smartphone sensor data• Designed and developed a modular toolset for ingesting public seismic data | | |
| Research Assistant | IMSC, Viterbi School of Engineering, USC | Aug 2017 – |
| <ul style="list-style-type: none">• ADMS: Archived Transportation Data Management System• Intelligent IoT Integrator: A marketplace for IoT data streams• Agora: A Spatial-Temporal Index for Location Popularity in Multiple Resolutions | | |
| Software Engineering Intern | Bloomberg LP, New York | Jun 2017 – Aug 2017 |
| <ul style="list-style-type: none">• Software Infrastructure / Systems Cache Infrastructure<ul style="list-style-type: none">• Improved performance of company's internal local cache framework and added new features• Developed a benchmarking framework for all types of cache systems• Designed and implemented a module for suggesting optimal cache configuration parameters | | |
| Software Engineering Intern | Bloomberg LP, New York | Jun 2016 – Aug 2016 |
| <ul style="list-style-type: none">• Software Infrastructure / Systems Cache Infrastructure<ul style="list-style-type: none">• Integration of in-house database's new features with the internal Tiered Cache Framework (Chipmunk)• Automated deployment of Chipmunk | | |
| Software Engineer
iOS Lead Developer | Funifi LTD (startup), Cyprus | Aug 13 – Jul 2015 |
| <ul style="list-style-type: none">• Collaborated cheerfully with the iOS team in developing Funifi DO• Backend Servers management, website maintenance, office network administration | | |
| Research Assistant | Data Management Systems Laboratory, UCY | Sep 2013 – Jul 2015 |
| <ul style="list-style-type: none">• Thesis: "TelcoWare: An Extensible Big Data Processing Architecture for the Telecom Industry"<ul style="list-style-type: none">• Contributed to the overall architecture design• Implemented data connectors on Apache Spark• Developed a module to store data and analytics results in Couchbase (NoSQL database)• Implemented an iOS spatial data management engine for the major GIS company in Cyprus (currently in 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 (currently in AppStore)

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

PUBLICATIONS

- “ADMSv2: A Modern Architecture for Transportation Data Management and Analysis,” **C. Anastasiou**, J. Li, C. He, Y.-Y. Chiang, and C. Shahabi, 2nd ACM SIGSPATIAL International Workshop on Advances in Resilient and Intelligent Cities (ARIC), Chicago, 2019
- “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.

CONFERENCES & PANELS

- Appointed Officer & Organizing committee member, ACM SIGSPATIAL Sep 2017 – Dec 2020
- 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

- **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

- IEEEExtreme 8.0 programming competition, ranked 108th/1700 teams worldwide
- Fulbright Student Scholarship recipient for graduate studies in USA (Fall 2015)
- ACM SIGMOD 2014 Programming Contest, ranked 4th nationwide and 13th/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.