George Christodoulou

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SUMMARY

I received my diploma in Computer Science and Engineering from the Computer Science and Engineering Department of the University of Ioannina in 2017. I received my MSc in Computer Science with specialization in software from the Computer Science and Engineering Department of the University of Ioannina in 2020. My research interests include Data Management and Query processing (Efficient Data Indexing and Retrieval on temporal data). Currently, I am pursuing my PhD degree from the Computer Science and Engineering Department of the University of Ioannina.

EXPERIENCE

Research Assistant at Centre for **Research & Technology Hellas (CERTH)** — May 2019 – Sep 2019
  - worked on designing and developing an Anomaly detector based on machine learning techniques for the 'Secure and Safe IoT' (SerIoT) project.
  - Python, PyTorch, Tensorflow

Software engineer Intern at **Natech S.A. , Ioannina, Greece** — Jul 2016 – Aug 2016
  - worked on designing and developing a ASP.NET MVC web application
  - C# , MVC

Networks lab assistant at **University of Ioannina, Department of Computer Science & Engineering , Greece** — Oct 2017 - Jan 2018 / Oct 2018 - Jan2019

Java lab assistant at **University of Ioannina, Department of Computer Science & Engineering , Greece** — Mar 2018 - June 2018

Python lab assistant at **University of Ioannina, Department of Computer Science & Engineering, Greece** — Oct 2019 – Jan 2022

EDUCATION

University of Ioannina,Department of Computer Science & Engineering , Greece

  - ◦ Diploma in Computer Science & Engineering — Sep 2011 – Sep 2017
    - → Grade: 6.74
    - → thesis: Routing Methods with Machine Learning on Delay Tolerant Networks.
      - ◦ Redesign and optimization of a routing protocol with machine learning techniques, C++

- ○ MSc in Computer Science & Engineering
  → Grade: 9.08   Oct 2017- Feb 2020
  → thesis: A Prefix-based Hybrid Solution for Main
    Memory Indexing
    - ○ Development of Main memory Index with binary
      representations of data, C++

- ○ Currently pursuing PhD in Computer Science &   Feb 2020 - Present
  Engineering
  → Advisory Committee :
    - ○ Prof. Nikolaos Mamoulis (Supervisor)
    - ○ Prof. Panagiotis Vasiliadis
    - ○ Prof. Panagiotis Tsaparas

PUBLICATIONS

George Christodoulou, Panagiotis Bouros and Nikos Mamoulis:

[HINT: A Hierarchical Index for Intervals in Main Memory](#)

Proceedings of the 2022 ACM International Conference on Management of Data (**ACM SIGMOD**), Philadelphia, PA, USA, June 12-17, 2022

George Christodoulou, Panagiotis Bouros and Nikos Mamoulis:

HINT: A Hierarchical Interval Index for Allen Relationships

Under Review, 2022

TECHNICAL SKILLS

C++ - used at university courses, my BSc thesis, my MSc thesis, PhD
Python – used at university courses, CERTH, PhD
Java (SE, EE) – used at university courses and various projects
C# – used at Natech S.A.
Database management – used at university courses
Machine learning techniques – used at multiple university courses, my BSc thesis, CERTH
Tensorflow, PyTorch – used at CERTH
Linux - used at university courses
ASP.NET MVC – used at Natech S.A.

OTHER SKILLS AND INTERESTS

Languages	Greek (native), English (fluent), Dutch (fluent)
Interests	Interval Data Indexing and retrieval, Spatial Data indexing and retrieval, Machine Learning