George Kiritsas

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| **Address:** | Maditou 18, Perissos |
| **Date of Birth:** | 04 March 1988 |
| **Place of Birth:** | Marousi, Attica |
| **Military Obligations:** | Fulfilled |
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Education

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| **March 2013 – September 2020 (Estimated)** | Diploma EE/CS  National Technical University of Athens  School of Electrical and Computer Engineering  Computer Science major  **Diploma Thesis:** "Compression Techniques for In Memory Data Analytics"  **Supervisor:** Giagkos Mytilinis  **Description:** The rapid increase of data, both user and  machine generated, has far outpaced the growth rate  of computational capacity. Traditionally this data  resides in storage arrays of HDDs or SSDs. Recently, In  Memory Databases have gained traction as a faster  approach for online data analytics. These databases  store data and perform queries directly in RAM,  providing real or near real-time response. In this  thesis we evaluate compression as a technique to  reduce the size of in-memory databases. Space  savings lead to significant time savings as more data  can be placed into main memory, which is an order of  magnitude faster than Hard, or even Solid-State Disks.  We argue that using lightweight compression  schemes can lead to time savings as well, because it  incurs fewer data movements between the CPU and  the much slower RAM. Towards this, we propose  Hybrid Columnar, an In-Memory Columnar Data Store  in which we implement and evaluate various  compression techniques. |
| **March 2007 – December 2012** | Degree  TEI of Athens  Faculty of Technological Applications  Department of Informatics  **Grade:** 7.04 / 10  **Degree Thesis:** "Internet Mobility"  **Supervisor:** Assistant Prof. Iphigenia Founta  **Degree:** 10 / 10  **Description:** Thesis involved studying of mobility related protocols of TCP/IP stack, in order to find the optimal solution to internet mobility. A new application layer protocol was designed as a solution to mobility in file transfer applications. Moreover, a file transfer application was created in order to implement and test the aforementioned protocol. |
| **September 2002 – July 2005** | High School Diploma  Greek-French School "St. Joseph" Pefki, Attica |

Work Experience

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| **April 2018 – Present** | Software Engineer  Intracom Telecom  **Description:** Collecting client requirements. Design and implement solutions in order to support client business process. Writing telecom software that orchestrates core network functions, such as billing and number portability.  Prototyping and implementing changes in software, based on clients input. Support of existing systems and implementing fixes. Writing of documentation and user manual of business software. Back end software development using Spring, Spring Boot and EJB. Communicating with external systems, using adapters. Front end development using AngularJS, HTML5, CSS and ES6. Collaboration with front end developers regarding the creation of REST APIs and synergy between front and back end in general. |
| **March 2012 - September 2012** | Internship  GRNET  Network Operations Center  **Description:** Role involved monitoring GRNET Panhellenic network, as well as its peerings with Europe. My job also involved troubleshooting and communication with company's clients |

Expertise

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| Systems Layer | C, C++ |
| Parallel Computing | MPI, POSIX Threads, OpenMP, CUDA |
| Distributed Systems | Physical Clocks, Logical Clocks, Synchronization, Data Replication, P2P Protocols, Hadoop, HDFS, MapReduce |
| Networking | TCP/ IP, BSD Sockets, Addressing, Subnets, VLANs, BGP, Routing, MPLS, Network Security, Intrusion Detection Systems, VoIP, Network Monitoring (Nagios, HP OpenView), Software Defined Networking (SDN), OpenFlow |
| Web Development | Spring, Spring Boot, AngularJS, JavaScript, Java EE, PHP, Python, Django, Flask, Jinja, CSS, HTML |
| Databases | ER Model, Relational Model, Normalization, ACID Principle, Concurrent Transactions, Distributed Databases, Recovery Schemes, MySQL, SQLite |
| GUI Development | Java SE (AWT, Swing, MVC), Qt |
| Mobile Development | Android |
| Functional Programming | ML, Haskell |
| Operating Systems | Threads, Locks, Semaphores, Virtual Memory, Virtual Machines, Linux Configuration, Shell Scripting |

Projects

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| Expenses Management System | Technologies Used: Spring Boot, AngularJS, MySQL, Bootstrap, HTML, CSS, JavaScript |
| Pub Sub Server & Client | Technologies Used: Java SE (Executors, Sockets) |
| Patient Medical Record | Technologies Used: Django, Bootstrap, HTML, CSS, JavaScript |
| Inventory Management System | Technologies Used: Java SE (Swing, MVC), MySQL |
| File Transfer Application | Technologies Used: Qt (GUI, Threads, Sockets, Asynchronous Programming) |

Military Service

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| **November 2015 – July 2016** | Hellenic Army  Signals Arm  Communication center and cryptographic machines operator  Samothrace Island |

Foreign Languages

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| **English:** | Certificate of Proficiency in English, Cambridge  Certificate of Proficiency in English, Michigan |
| **French:** | DELF B2 |
| **German:** | A2 |