George Kiritsas

Address: Maditou 18, Perissos
Date of Birth: 04 March 1988
Place of Birth: Marousi, Attica
Military Obligations: Fulfilled
Tel. Mobile: +30 6947499959
Tel. Home: +30 210 2758811
e-mail: gkirion@gmail.com

Education

March 2013 – December 2020

Diploma EE/CS
National Technical University of Athens
School of Electrical and Computer Engineering
Computer Science major
Grade: 7.04 / 10 (**Estimated**)
Diploma Thesis: "Compression Techniques for In Memory Data Analytics"
Supervisor: Giagkos Mytilinis
Degree: 10 / 10
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

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

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

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

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

Foreign Languages

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