Dimitris Mouris

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EXPERIENCE

Athena Research & Innovation Center   Researcher & Software Engineer   September 2017 – Now
My Health My Data (MHMD): A Horizon 2020 project developing a blockchain-based health data platform enabling privacy-preserving consented data sharing and big data analytics, using techniques like *Secure Multi-party Computation*, *Differential Privacy*, *K-Anonymity* and *Smart Contracts*. MHMD stems from the urgency of securing patient data, reducing "by design" the risk of identity theft and privacy breaches, and introducing a new way to share private information empowering their primary owners, the patients.

EDUCATION

Master of Science   2016 – 2018 (Expected)
Department of Informatics & Telecommunications, University of Athens, Greece
The *Computer Systems (Software and Hardware)* specialization treats topics that relate to system-level computation. This includes knowledge areas such as Computer Architecture, Operating & Distributed Systems, Programming Language Implementation, and more. Students acquire in-depth knowledge of both systems principles and practices.

Bachelor of Science   2012 – 2016
Department of Informatics & Telecommunications, University of Athens, Greece   Gpa 8.1/10

RESEARCH

TERMinator Suite: Privacy-Preserving Benchmarks   In Revision
A benchmark suite that prohibits making control-flow decisions and evaluating early termination conditions based on encrypted data, as these can leak information. We instantiated our benchmarks for the Cryptoleq architecture and evaluated their performance for a range of security parameters.   IEEE Computer Architecture Letters, IACR ePrint

Research Assistant | It's-My-Data Project   February – April 2017
It's-My-Data is a distributed file system that allows users to view and manage their data across devices, providing automatic replication and synchronization of data, always concerning privacy and security. My task was to develop deduplication techniques of the content storage of the file system in C++.   SOSP `17 submission

TECHNICAL SKILLS

Programming Paradigms
Procedural ☰, Object Oriented ☰,
Logic ☰, Functional ☰

Programming Languages
C ☰, C++ ☰, Java ☰, Python ☰, Prolog ☰,
Datalog ☰, Haskell ☰

Parallel Programming
POSIX processes & threads ☰, MPI ☰,
Open MP ☰, NVidia CUDA ☰

Database Systems & Blockchain Frameworks
SQL ☰, MySQL ☰, Hyperledger Fabric ☰

Scripting
Z shell ☰, Bash ☰, Bourne ☰, C shell ☰

Markup & Web Languages
PHP ☰, HTML ☰, CSS ☰

Assembly Languages
MIPS ☰, Cryptoleq ☰

Computer Graphics
OpenGL ☰, LaTeX ☰

Version Control
Git ☰, Mercurial ☰

TEACHING ASSISTANCE

Introduction to Programming	Fall 2014/15/16/17
Operating Systems	Fall 2016
System Programming	Spring 2017
Logic Programming	Spring 2017

LANGUAGES

Greek (native)
English (fluent)

TECHNICAL INTERESTS

Computer Security, Privacy-Preservation, Encrypted Computation, Computer Architecture & Blockchain Technologies