Yiannis Tsiouris

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Personal

Born on May 24, 1988.

Citizen of Athens, Greece.

Education

National Technical University of Athens, Athens, Greece
Ph.D., Electrical and Computer Engineering   *November 2011 - present*

- Thesis Topic: *Programming Language: Design and Implementation*
- Advisor: Kostis Sagonas, Assistant Professor
- Area of Study: Programming Language Theory

National Technical University of Athens, Athens, Greece
Dipl. Eng., Electrical and Computer Engineering   *September 2006 - October 2011*

- Majors: Computer Software, Computer Systems and Hardware
- Minors: Computer Networks, Economics
- Thesis Topic: *Design and implementation of a Low Level Virtual Machine for the High Performance Erlang native code compiler*
- Advisor: Kostis Sagonas, Assistant Professor
- GPA: **8.78/10**

Research Interests

Functional Programming Languages, Concurrent and Parallel Programming, Program Analysis, Type Systems, Security

Research Experience

ErLLVM: A project aiming at providing multiple back ends for High Performance Erlang (HiPE, the native code compiler of the Erlang/OTP system, with the use of the Low Level Virtual Machine (LLVM) infrastructure.

RELEASE: A High-level Paradigm for Reliable Large-scale Server Software is an EU FP7 STREP (287510) that aims to scale the radical concurrency-oriented programming paradigm to build reliable general-purpose software, such as server-based systems, on massively parallel machines (100 000 cores). Project partners include Heriot-Watt, Ericsson, Uppsala Universitet, Kent University, Erlang Solutions Ltd., National Technical University of Athens, and EDF (France).

Selected Undergraduate Projects

Implementation of a complete compiler for a Python-like language (with semantics of call-by-reference, dynamically allocated types and garbage collection) in OCaml.

Design and implementation of a Database Management System (DBMS) for organizing inter- and intra-university data, such as professors, students and labs' metadata, in Python, Qt4 and PostgreSQL.

Design and implementation of an infrastructure to mark processes that do not need files they own to be cached in memory. The infrasture is implemented as a kernel patch for 2.6.37 Linux kernel.

Extension of the SIP Communicator by adding extra operational features, such as billing, blocking and forwarding.

Skills

Programming Languages

OCaml, Erlang, Python, Haskell, C/C++, Java

Systems

GNU/Linux, Apple OS X, Microsoft Windows

Other

Databases, Networking, System Administration

Languages

Greek (native)

English (Cambridge Certificate of Proficiency in English, CPE)

Extracurricular Activities

Founding and Administrative Member of "Free and Open Source Software Community" of the National Technical University of Athens.

Organizing committee member of 1st Conference on "Free and Open Source Software Communities", 21th & 22th March 2008, in Athens, Greece.

Organizing committee member of 5th Conference on "Free and Open Source Software: Enterpreneurship, Public Sector, Education & Research", 14th & 15th May 2010, in Athens, Greece.

Organizing committee member of 6th Conference on "Free and Open Source Software: Open Source Software, Development Opportunities", 20th & 21th May 2011, in Athens, Greece.

Participated in numerous FOSS events and conferences.

Hobbies

Soccer, Beach Volleyball, Swimming, Hiking, Pool, Programming

Last updated: November 24, 2011