Zoi Paraskevopoulou

Personal Information

Date of birth: 31 July 1990
Gender: Female
Citizenship: Greek

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Education

Diploma (5 years degree) — September 2008 to September 2014 (expected)

School of Electrical and Computer Engineering, National Technical University of Athens, Greece

Majors: Computer Software, Computer Systems

Minors: Mathematics, Computer Networks

Equivalent with Master's Degree

Expected GPA: 8.4/10 (GPA is calculated as $0.8 \cdot$*average grade of courses*$+0.2 \cdot$*thesis grade*)

Notable Courses:

- Compilers
- Mathematical Logic for Computer Science
- Cryptography
- Parallel Processing Systems
- Advanced Topics in Database Systems
- Applications of Logic in Computer Science (Lambda Calculus)
- Programming Languages II
- Operating Systems Laboratory

General Lyceum (Upper Secondary School) — September 2005 to June 2008

Geitonas School, Athens, Greece

Direction: Science

GPA: 19.5/20

Research Experience

Research Internship at INRIA Paris-Rocquencourt — April 2014 to September 2014

- Topic: *QuickChick: Speeding up Formal Proofs with Property-Based Testing*
- Advisor: Cătălin Hriţcu
- Team: Prosecco

Upcoming Workshop Talk

QuickChick: Property-Based Testing for Coq.
Maxime Dénès, Catalin Hritcu, Leonidas Lampropoulos, Zoe Paraskevopoulou and Benjamin C. Pierce. The 6th Coq Workshop. July 2014.

Other Courses

Summer school on Applied Functional Programming in Haskell — August 2013
Held by Utrecht University, Netherlands. Attended with scholarship granted by Utrecht University.

Certificates of accomplishment for the following **Online Courses**:

- Cryptography I — March 2013
  provided by Standford University through Coursera Inc.
- Software as a Service — November 2012
  provided by BerkeleyX through edX

Notable Student Projects

Lambda Calculus Interpreter — November 2013
An interpreter for a typed lambda calculus variant featuring let and let-rec definitions, if-then-else construct, pairs, various arithmetic, boolean and relative operators, type inference and let-polymorphism. Implemented in Haskell in a team of 2 students.

Llama Compiler October 2013
A compiler for an OCaml-like language with pattern matching, type inference, high order functions and user defined data types. The compiler performs control flow graph, peephole and tail call optimizations. Developed in OCaml in a team of 3 students.

Advanced Topics in Database Systems Project March 2013
A bibliographic report about security and cryptography in database systems, written in a team of 2 students.

Cryptography Project January 2013
A library implementing basic operations on elliptic curves over prime fields, Elliptic Curve digital signature and Diffie-Hellman key exchange algorithms. Developed in Ocaml in a team of 2 students.

Database Systems Project February 2012
Design and implementation of a database management system for a fictional airport, following the MVC pattern. Developed using MySQL, PHP, HTML and Javascript in a team of 2 students.

Computer Skills

Proof Assistants
Coq, SSReflect library

Programming Languages
OCaml, Haksell, Prolog, C, Erlang, Unix Shell Scripting, Ruby, PHP, SQL, Java, Assembly (x86, AVR)

Operating Systems
Apple OS X, Linux, Windows

Other Tools and Frameworks
Git, LaTeX, Gnuplot, VIM, Emacs, Frama-C

Interests

programming languages theory and implementation, static analysis, software testing and verification, formal methods, cryptography, functional programming

Languages

Greek
Mother Tongue

English
Proficient speaking and writing skills
FCE Cambridge Spring 2005

French
Elementary speaking and writing skills
Delf A2 Spring 2004

Other Activities

Music studies at the National Conservatory of Athens.

Piano September 2008 to present

Choral Conducting September 2012 to 2014

Theory of Harmonization September 2011 to 2014

Music Theory September 2010 to June 2011