Georgios "George" Balatsouras

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github.com/gbalats

EDUCATION

Ph.D. Candidate, Static Program Analysis

2012 - 2017

Ethnikon kai Kapodistriakon Panepistimion Athinon / University of Athens

Department of Informatics & Telecommunications

Advisor: Prof. Yannis Smaragdakis (smaragd@di.uoa.gr)

Thesis: Recovering Structural Information for Better Static Analysis.

Master of Science, Computing Systems

2009 - 2012

Ethnikon kai Kapodistriakon Panepistimion Athinon / University of Athens

Department of Informatics & Telecommunications

Grade: 9.78/10. Top of graduating class (31 graduates).

Bachelor of Science, Computer Science

2004 - 2009

Ethnikon kai Kapodistriakon Panepistimion Athinon / University of Athens

Department of Informatics & Telecommunications

Grade: 8.80/10. Top of graduating class (~ 50 graduates).

EXPERIENCE

Hellenic Army Information Technology Support Center (KEPYES) Software Development Engineer

June 2017 – present Athens, Greece

· Description: Served in the Research and Informatics Corps (mandatory military service) with Software Development responsibilities. Worked on the development of a Java EE Web application with JSF to support existing and add new, inter-organizational operations of the Hellenic Army.

University of Athens

July 2011 – May 2017

Research Assistant, Dept. of Informatics & Telecommunications

Athens, Greece

- · Supervisor: Assoc. Prof. Yannis Smaragdakis (smaragd@di.uoa.gr)
- · FP7 Projects: (1) SPADE ("Sophisticated Program Analysis, Declaratively"), (2) PADECL ("Advanced Program Analysis Using Declarative Languages")
- · Description: Worked on the active development of the Doop framework for static analysis of Java projects. Developed cclyzer, a new static analysis framework for C/C++, using the LogicBlox Datalog engine, the LLVM infrastructure, Python, and C/C++.

LogicBlox, Inc

April 2012 – August 2012

Software Engineer Intern, Compiler Technologies

Atlanta, GA, USA

· Supervisor: Shan Shan Huang (ssh@logicblox.com)

University of Athens

October 2010 – June 2011

Research Developer, Dept. of Informatics & Telecommunications

Athens, Greece

- · Supervisor: Prof. Alex Delis (ad@di.uoa.gr)
- · Project: PERNASVIP
- · Description: Development of the Itinerary Planner Server, i.e. the server who generates the itineraries that will be used for navigation by the end-users of the system

LANGUAGES AND CERTIFICATES

Greek (native), English (fluent)

Certificate of Proficiency in English, University of Michigan (USA)

2003

TECHNICAL SKILLS

Programming Languages C/C++, Java, Python, Bash, Prolog, Datalog, Emacs Lisp

Version Control Systems Git, Mercurial, Subversion

Build Automation GNU Make, Apache Ant, Apache Maven

UNIX Skills Shell Scripting, Systems Programming, Command-line Utilities

Editors & IDEs Emacs, IntelliJ IDEA, Eclipse

Databases and Tools SQL, MySQL, LogicBlox

Compilers and Debuggers GCC / G++, GDB, Valgrind, LLVM

Frameworks ASM, BCEL, AspectJ, CGAL, ECLiPSe

Web Development HTML + CSS, PHP, JSP, JSF, PrimeFaces, Django, Bootstrap

Other GNU Bison + Flex, LATEX, LibreOffice, G Suite, Docker

ACTIVITIES

Teaching Assistant

2009 - 2014

University of Athens - Dept. of Informatics & Telecommunications

HOBBIES & INTERESTS

reading, music (piano, guitar), role-playing games, Emacs hacking, soccer

PUBLICATIONS

- · G. Balatsouras et al. "A Datalog Model of Must-alias Analysis". In: *Proc. of the 6th ACM SIGPLAN International Workshop on State Of the Art in Program Analysis*. SOAP '17. Barcelona, Spain: ACM, 2017.
- · G. Balatsouras and Y. Smaragdakis. "Structure-Sensitive Points-To Analysis for C and C++". In: *Proc. of the 23rd International Symp. on Static Analysis.* SAS '16. Edinburgh, United Kingdom: Springer, 2016.
- · Y. Smaragdakis, G. Balatsouras, and G. Kastrinis. "More Sound Static Handling of Java Reflection". In: *Proc. of the 13th Asian Symp. on Programming Languages and Systems*. APLAS '15. Pohang, Korea, 2015.
- · Y. Smaragdakis and G. Balatsouras. "Pointer Analysis". In: Foundations and Trends® in Programming Languages 2.1 (2015), pp. 1–69.
- · Y. Smaragdakis, G. Kastrinis, and G. Balatsouras. "Introspective Analysis: Context-sensitivity, Across the Board". In: *Proc. of the 2014 ACM SIGPLAN Conf. on Programming Language Design and Implementation*. PLDI '14. Edinburgh, United Kingdom: ACM, 2014, pp. 485–495.
- · G. Balatsouras and Y. Smaragdakis. "Class Hierarchy Complementation: Soundly Completing a Partial Type Graph". In: *Proc. of the 28th Annual ACM SIGPLAN Conf. on Object Oriented Programming, Systems, Languages, and Applications.* OOPSLA '13. Indianapolis, Indiana, USA: ACM, 2013, pp. 515–532.

· Y. Smaragdakis, G. Balatsouras, and G. Kastrinis. "Set-Based Pre-Processing for Points-To Analysis". In: *Proc. of the 28th Annual ACM SIGPLAN Conf. on Object Oriented Programming, Systems, Languages, and Applications.* OOPSLA '13. Indianapolis, Indiana, USA: ACM, 2013, pp. 253–270.