Anastasios Antoniadis

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TECHNICAL SKILLS

- Languages: Java, Python, C++, C, Groovy, PHP, Javascript, Datalog, Scheme
- Frameworks & Libraries: Spring, Protobuff, jQuery, Bootstrap, JSP & Java Servlets
- Databases: Oracle SQL, MySQL, Elasticsearch
- Build Tools: Make, Gradle, Maven, Ant

EXPERIENCE

Cyvox OÜ   January 2021 – January 2023
Copywriter, SEO, Developer, and Blog Manager   *Tallinn, Haarju, EST*

- Started a blogging small business and created BORDERPOLAR, a tech and gaming website that reached hundreds of thousands monthly visitors.
- Managed all the website's functional aspects, including content creation (copywriting), SEO, WordPress Development, and Performance Optimization.
- Developed word searching and pattern mathching Javascript (Single-Page-App) tools that assisted visitors in word puzzles such as Wordle, Duordle, and Quordle.

Technologies:: WordPress, PHP, Javascript.

University of Athens   October 2014 – December 2020
Software Engineer & Research Assistant, PLAST   *Athens, ATH, GR*

- Contributed to the development of static analyses tools, including the parallelization of data extraction from Java bytecode and the development of a web application to view static analysis results on the source code of the program.
- Worked on porting the group's Java bytecode analysis framework to a new Datalog engine (LogicBlox to Soufflé).
- Explored ways to improve the scalability and completeness of points-to analysis of Java Enterprise applications e.g., by modifying data structures inside the JDK.

Technologies: Java, Groovy, Python, LogicBlox, Soufflé.

Oracle Labs Australia   February 2019 – July 2019
Research Assistant   *Athens, ATH, GR*

- Worked on enhancing the completeness of static analysis of Java Enterprise applications using heap snapshots. Experimented with different tools for capturing heap snapshots and stack traces and different modes of execution for the web applications e.g., testing and normal execution.

Technologies: Java, Groovy, Python, Soufflé.

CERN   October 2012 – October 2013
Technical Student, PH-CMG-PS   *Geneva, GE, CH*

- Contributed to the active development of a physics analysis framework, in particular to the production of datasets and management of the group's database.
- Developed a web page for particle collision dataset comparisons using root histograms.
- Created C++ dynamic libraries for physics using GNU autotools.
- Contributed to the migration of the group's software from CVS to Git.

Technologies: Python, Oracle SQL, GNU Autotools, HTML, CSS, PHP.

Past Supervisors: Colin Bernet, Paddy Krishnan, Raghavendra Ramesh, and Nicholas Allen

EDUCATION

Doctor of Philosophy – PhD, Static Program Analysis   **2016 − On Hold**
University of Athens, Department of Informatics & Telecommunications
Advisor: Prof. Yannis Smaragdakis

Master of Science, Computing Systems   **2015 − 2016**
University of Athens, Department of Informatics & Telecommunications
Thesis: ("Combining source code metadata and static analysis results via a compiler plug-in")
Grade: 10/10. Valedictorian of graduating class.

Bachelor of Science, Computer Science   **2006 − 2014**
University of Athens, Department of Informatics & Telecommunications
Thesis: ("Declarative Points-to Analysis on Different Datalog Engines")
Grade: 8.51/10. Salutatorian of graduating class.

LANGUAGES

Greek (native), *English* (fluent).

PUBLICATIONS

- Tony Antoniadis, Konstantinos Triantafyllou, and Yannis Smaragdakis. "Porting Doop to Souffle: A Tale of Inter-engine Portability for Datalog-based Analyses". In: *Proceedings of the 6th ACM SIGPLAN International Workshop on State Of the Art in Program Analysis*. SOAP 2017. Barcelona, Spain: ACM, 2017, pp. 25–30. ISBN: 978-1-4503-5072-3. DOI: 10.1145/3088515.3088522. URL: http://doi.acm.org/10.1145/3088515.3088522
- Anastasios Antoniadis et al. "Static Analysis of Java Enterprise Applications: Frameworks and Caches, the Elephants in the Room". In: *Proceedings of the 41st ACM SIGPLAN Conference on Programming Language Design and Implementation*. PLDI 2020. London, UK: Association for Computing Machinery, 2020, 794–807. ISBN: 9781450376136. DOI: 10.1145/3385412.3386026. URL: https://doi.org/10.1145/3385412.3386026
- Sifis Lagouvardos et al. "Static Analysis of Shape in TensorFlow Programs". In: *34th European Conference on Object-Oriented Programming, ECOOP 2020, November 15-17, 2020, Berlin, Germany (Virtual Conference)*. Ed. by Robert Hirschfeld and Tobias Pape. Vol. 166. LIPIcs. Schloss Dagstuhl - Leibniz-Zentrum für Informatik, 2020, 15:1–15:29. ISBN: 978-3-95977-154-2. DOI: 10.4230/LIPIcs.ECOOP.2020.15. URL: https://doi.org/10.4230/LIPIcs.ECOOP.2020.15

ACTIVITIES

University of Athens   **Spring 2014 – Fall 2020**
Teaching Assistant

- Courses: Operating Systems, System Programming, Compilers, Systems/Advanced Programming Techniques.
- Instructors: Alex Delis, Yannis Smaragdakis

Grants and Awards: Oracle scholarship for SOAP 2017.
Hobbies & Interests: Photography, Films, NFL.