

# Anastasios Antoniadis

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🌐 [github.com/anantoni](https://github.com/anantoni)

## EXPERIENCE

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### 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), search engine optimization (SEO), WordPress Development, and Performance Optimization.
- Developed word searching and pattern matching 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.

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

Ph.D. Advisor: Yannis Smaragdakis

## EDUCATION

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- 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"](#))  
Advisor: Prof. Yannis Smaragdakis  
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"](#))  
Advisor: Assoc. Prof. Yannis Smaragdakis  
Grade: 8.51/10. Salutatorian of graduating class.
- Certificate of Proficiency in English**, University of Cambridge (UK)

## PUBLICATIONS

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- 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](https://doi.org/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](https://doi.org/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](https://doi.org/10.4230/LIPIcs.ECOOP.2020.15). URL: <https://doi.org/10.4230/LIPIcs.ECOOP.2020.15>

## ACTIVITIES

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- University of Athens** Spring 2014 – Fall 2020  
*Teaching Assistant*
- **Systems Programming** Spring 2014
  - **Operating Systems** Fall 2014
  - **Compilers** Spring 2014, Spring 2015, Spring 2016, Fall 2017
  - **OO Languages and Systems/Advanced Programming Techniques** Fall 2019, Fall 2020
- Instructors:** Alex Delis, Yannis Smaragdakis
- Grants and Awards:** Oracle scholarship for SOAP 2017.
- Hobbies & Interests:** Photography, Films, NFL.