

# Anastasios Antoniadis

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

## EDUCATION

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**Website Owner** Copywriter, SEO, and Developer 2021 – 2023  
Cyvox OÜ, Estonia

**Doctor of Philosophy – PhD**, Static Program Analysis 2016 – present  
Ethnikon kai Kapodistriakon Panepistimion Athinon / University of Athens  
Department of Informatics & Telecommunications  
Advisor: Prof. Yannis Smaragdakis

**Master of Science**, Computing Systems 2015 – 2016  
Ethnikon kai Kapodistriakon Panepistimion Athinon / University of Athens  
Department of Informatics & Telecommunications  
Thesis: "Combining source code metadata and static analysis results via a compiler plug-in" ([link](#))  
Advisor: Prof. Yannis Smaragdakis  
Grade: 10/10. Valedictorian of graduating class.

**Bachelor of Science**, Computer Science 2006 – 2014  
Ethnikon kai Kapodistriakon Panepistimion Athinon / University of Athens  
Department of Informatics & Telecommunications  
Thesis: "Declarative Points-to Analysis on Different Datalog Engines" ([link](#))  
Advisor: Assoc. Prof. Yannis Smaragdakis  
Grade: 8.51/10. Salutatorian of graduating class.

## EXPERIENCE

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**Cyvox OÜ** January 2021 – Present  
*Copywriter, SEO, Developer, and Blog Manager* Tallinn, Haarlj, GR

- Started my own blogging small and created <https://borderpolar.com>, 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. [WordPress](#), [PHP](#), [Javascript](#).

**University of Athens** October 2014 – Present  
*Software Engineer, PLAST* Athens, ATH, GR

- Supervisor: Yannis Smaragdakis
- Contributed to the development of the group's static analyses tools, including the parallelization of fact generation 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).
- Worked on the scalability and completeness of points-to analysis of Java Enterprise applications. [Java](#), [Groovy](#), [Python](#), [LogicBlox](#), [Soufflé](#).

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

- Supervisors: Paddy Krishnan, Raghavendra Ramesh and Nicholas Allen
- 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. Java, Groovy, Python, Soufflé.

## CERN

Technical Student, PH-CMG-PS

October 2012 – October 2013

Geneva, GE, CH

- Supervisor: Colin Bernet
- Contributed to the active development of a physics analysis framework, in particular to the production of datasets and management of the group's database.
- Other tasks:
  - (i) Developed a web page for particle collision dataset comparisons using root histograms,
  - (ii) Created C++ dynamic libraries for physics using GNU autotools,
  - (iii) Contributed to the migration of the group's software from CVS to Git. Python

## LANGUAGES AND CERTIFICATES

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Greek (native), English (fluent)

Certificate of Proficiency in English, University of Cambridge (UK)

2004

## TECHNICAL SKILLS

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<b>Programming Languages</b>	C/C++, Java, Groovy, Python, Bash, Prolog, Javascript, Datalog
<b>Version Control Systems</b>	Git, Mercurial, CVS
<b>Editors and IDEs</b>	Emacs, vim, IntelliJ IDEA, CLion, Visual Studio Code, PyCharm
<b>Build Automation</b>	GNU Make, CMake, Autotools, Gradle, Ant, Maven
<b>UNIX Skills</b>	Shell Scripting, System Programming, Server Administration
<b>Databases and Tools</b>	SQL, MySQL, Oracle SQL
<b>Compilers and Debuggers</b>	GCC / G++, GDB, Valgrind
<b>Concurrent Programming</b>	Pthreads, MPI, OpenMP, Cuda, Java ( <code>java.util.concurrent.*</code> )
<b>Operating Systems</b>	Linux, BSD, Unix and Unix-like operating systems, Windows
<b>Networking</b>	Google Protocol Buffers, Apache HTTP components
<b>Web Development</b>	HTML, CSS, PHP, JSP, Javascript, Java Enterprise, Spring

## 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.EC00P.2020.15](https://doi.org/10.4230/LIPIcs.EC00P.2020.15). URL: <https://doi.org/10.4230/LIPIcs.EC00P.2020.15>

## ACTIVITIES

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**University of Athens**

Spring 2014 – present

*Teaching Assistant*

Spring 2014

**Systems Programming  
Compilers**

Instructor: Yannis Smaragdakis

Fall 2014

**Operating Systems**

Instructor: Alex Delis

Spring 2015

**Compilers**

Instructor: Yannis Smaragdakis

Spring 2016

**Compilers**

Instructor: Yannis Smaragdakis

Fall 2017

**Compilers**

Instructor: Yannis Smaragdakis

Fall 2019

**OO Languages and Systems/Advanced Programming Techniques**

Instructor: Yannis Smaragdakis

## GRANTS AND AWARDS

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- Oracle scholarship for SOAP 2017.

## HOBBIES & INTERESTS

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reading, films, music, dog training, soccer, basketball