Stefanos Georgiou

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About me: I am passionate with **coding**, empirical studies,
integrating new technologies, and automating cumbersome tasks.
On my free time, I enjoy sporting, reading books, and **travelling**.

Education

2016-2020   **PhD, Computer Science**; Athens University of Economics and Business

Thesis title: *Energy and Run-Time Performance Practices in Software Engineering*; **Thesis**

PhD advisors: **Prof. Diomidis Spinellis** and **Prof. Panos Louridas**

2013-2015   **MSc, Pervasive Computing and Communications for Sustainable Development (PERCCOM)**; Erasmus Mundus Joint Master Degree

ITMO University of Saint-Petersburg (Russia) Thesis title: *Implementating Green IT Approach for Transferring Big Data over Parallel Data Links*; **Thesis**

Lulea University of Technology (Sweden) Semester 3: *Resource Efficient Pervasive Computing Systems and Communications* **Degree**

Lappeenranta University of Technology (Finland) Semester 2: *Smart Software and Services* **Degree**

Unversity of Lorraine (France) Semester 1: *Sustainable Computer Network Engineering* **Degree**

2008-2013   **BSc, Networks and Systems Programming**; University of Cyprus

Thesis title: *Implementation and Evaluation of the Biologically – Inspired AntHoc-Net Routing Protocol in Sensor Network*; **Degree**

Industrial Experience

Sep 2020-current **Software Developer** **Greek Free, Open Source Software**

Developing a privacy-preserving epidemic dosimeter based on contact tracing. **Proof Repository**

Responsibilities   Developing **Python**, **Shell**, and **Ansible** scripts on a Raspberry Pi Zero

Extented testing for the correct functionality of the device

Jan 2019-Apr 2020   **Back-end developer, DevOps, and Integrations:** **AllCanCode Inc. Greek Branch**

Supported the product development that facilitates fast web-sites development (by using **Blockly**) on Desktop that can be exported in smart-phones as well.

Responsibilities	Development of API end-points in JavaScript (**Node.JS**) and **MongoDB** for the server platform (product) and customer products
	Creation of the CI system for the product (in GitLab) to perform back-end and front-end testing (through **Mocha** and **Cypress** frameworks, respectively) and CD to auto-deploy product (for specific push branches) on Google's App Engine (Aurora, Beta, and Production) using the **Flex environment**
	Migration of monolithic product to micro-services using **Firebase hosting**, **Cloud Functions**, and **Cloud Run**
	Integration of **Bitrise** system in the product to allow platform users in exporting their Desktop applications to Android and iOS smart-phones through the **Cordova** wrapper
Jan 2016-2019	**Proposals writing: Singular Logic S.A.**
	Proposals writing for the European Projects Department. **Proof**
Responsibilities	Writing research proposals for Horizon 2020

Technical Experience

Back-End	BASH (Often automating cumbersome and time consuming tasks)
	NodeJS (Fan of KOA, prefer Mocha-Chai, like to use Native Addons for performance)
	Java (First real love, I was also teaching it at the Athes University of Economics and Business)
	Python (No need to read tutorials, feeling confy to code anytime)
	C (First ever learned, in love with Makefiles, and impressed by its performance)
	C++ (Second to learn after C, but as soon as I learned Java I stopped using it)
	MongoDB (**Basics**, **Aggregations**, **JavaScript**, and **Performance**)
DevOps	Continuous Integration and Deployment (Big fan of CI/CD Travis, GitLab, and Actions)
	Code Quality (Coveralls, maven-plugins, Style-Checkers, Reports. pre-commit hooks)
	Hosting (Firbase, Docker and Google App Engine)
	Mobile CI/CD (Bitrise with Cordova wrapper for mobile apps)
	Configuration Management (Ansible because it uses YAML)
Projects	Epidose: A privacy-preserving epidemic dosimeter based on contact tracing **Repository**
	Exam Questionnaire Scanner: **Repository**
	Measuring Energy Consumption: **Software** and **Hardware** tools
	Programming II website: **Repository**

Rosetta Code Experiement: **Repository**

Validate Links: **Repository**

Certificates   Unix Tools: **Data, Software, and Production Engineering**

Course Completion   MongoDB: **Basics**, **Aggregation**, **JavaScript**, **Performance**

`Loading the data just for you.`

Research Publications

- Conference Papers
  - **Stefanos Georgiou**, Maria Kechagia Panos Louridas, and Diomidis Spinellis. What Are Your Programming Language's Energy-Delay Implications? In 15th International Conference on Mining Software Repositories: Technical Track, MSR '18. New York, NY, USA, May 2018. Association for Computing Machinery. [**Paper**] [**BibTex**] [**Presentation**] [**Data-set**]
  - **Stefanos Georgiou**, Maria Kechagia, and Diomidis Spinellis. Analyzing Programming Languages' Energy Consumption: An Empirical Study. In PCI 2017: Proceedings of the 21st Pan-Hellenic Conference on Informatics, ACM International Conference Proceeding Series. ACM Press, September 2017. [**Paper**] [**BibTex**] [**Presentation**] [**Data-Set**]
- Journal Articles
  - **Stefanos Georgiou**, Dimitris Mitropoulos, and Diomidis Spinellis. Energy-Efficient Computing in a Secure Environment. Submitted in July 2020 for review in ACM Transaction of Computer Systems.
  - **Stefanos Georgiou** and Diomidis Spinellis. Energy-Delay Investigation of Remote Inter-Process Communication Technologies. Accepted for publication in Elsevier Journal of Systems and Software 2019. [**Preprint**] [**BibTex**]
  - **Stefanos Georgiou**, Stamatia Rizou, and Diomidis Spinellis. Software Development Life Cycle for Energy-Efficiency: Techniques and Tools. Accepted for publication in ACM Computing Surveys 2019. [**Preprint**] [**BibTex**]

Invited Talks

Tutorials   *How to improve your CI/CD process* presented on 5th of July 2019 at BALab of Athens University of Economics and Business in Athens, Greece. **Presentation**

Travis CI with CV template tutorial presented on 7th of June 2018 at ITMO Univesity of Saint Petersburg for PERCCOM Master students in Saint-Petersburg, Russia. **Presentation**

Research   *What are your programming language's energy-delay implications?* presented on 12th of June 2018 at PERCCOM's Summer School in Lappeenranta, Finland. **Proof**

Teaching Experience

Assisting my PhD advisor at Programming II course (Winter Semester of 2016, 2017, and 2018) by giving tutorial and Lab sessions in Java [**Repository**]

Gave Java lectures and tutorials for the 1st and 2nd Coding Boot Camp in Athens, Greece (Oct. 2017 - May 2018) [**Repository**] [**Proof**]

Organization Services

Program Committee   International Workshop on Sustainable Software Engineering

Reviewer   Jounals submitted to Software: Practices and Experience

Co-reviewer   Conference papers submitted to ICSE-SEIP, MSR, OSS, ICPC, ICCS, SANER, and SATToSE

Grands, Awards, Languages, and Living Abroad

- Grands and awards:
  - Mentored younger researcher **who won 2nd** place in SRC ESEC/FSE '19.
  - Best paper award from the 15th Annual DMST Student Conference (2018)
  - Marie Skłodowska-Curie funds, **SENECA** (2016-2019)
  - Erasmus Mundus Masters Scholarship, PERCCOM (2013-2015)
- Human Languages:
  - Greek/Hungarian (Native speaker)
  - English (Fluent speaker)
  - Russian/France (Basic knowledge)
- Living Abroad:
  - Born in Gyula, Hungary but grown up in Nicosia, Cyprus.
  - Ate baguettes and drunk wine in Lorraine, France (Fall Semester of 2013)
  - Attended to many sauna parties in Lappeenranta, Finland (Spring Semester of 2014)
  - Fish ice-cold beers from lakes in Lulea, Sweden (Fall Semeseter of 2014)
  - Drunk vodka and ate borsh in Saint-Petersburg, Russia (Spring Semester of 2015)
  - Teaching in Athens and visiting islands in Greece (Fall Semester of 2016 till now)
  - Biked in Delft, the Netherlands for my PhD secondment (Half month of Sept. 2017)

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