# Dr. Stefanos Georgiou

**Location preference**: Remote position

**Keywords**: Performance Researcher, Back-End, DevOps, Automations, and Integrations

**Contact details**: first name 1316 at gmail dot com, sgeorgiou at name at borocard dot com

**About me**: Passionated with [coding](https://stefanos1316.github.io/programmers_blog/), research, and automation of cumbersome tasks. Knows about Green and Energy-Efficient Computing, and Mining Software Repositories. Enjoys working on the command-line and with Linux systems. Likes to create indepentant componets and tools to facilitate daily functionalities. On free time, he is sporting, reading books, and [travelling](https://stefanos1316.github.io/my_blog/index.html).

## EDUCATION

2016-2021

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

Thesis title: *Energy and Run-Time Performance Practices in Software Engineering*; [Thesis](phd_thesis.pdf)

PhD advisors: (Main) [Prof. Diomidis Spinellis](https://www2.dmst.aueb.gr/dds/), [Prof. Panos Louridas](https://www.balab.aueb.gr/panos-panagiotis-louridas.html), and [Rizos Sakellariou](http://www.cs.man.ac.uk/~rizos/)

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](msc_thesis.pdf)

Lulea University of Technology (Sweden) Semester 3: *Resource Efficient Pervasive Computing Systems and Communications* [Degree](msc_lulea.pdf)

Lappeenranta University of Technology (Finland) Semester 2: *Smart Software and Services* [Degree](msc_lappeenranta.pdf)

Unversity of Lorraine (France) Semester 1: *Sustainable Computer Network Engineering* [Degree](msc_lorraine.pdf)

2008-2013

**BSc, Networks and Systems Programming**; University of Cyprus

Thesis title: *Implementation and Evaluation of the Biologically – Inspired AntHocNet Routing Protocol in Sensor Network*; [Degree](bsc_cyprus.pdf)

## WORK

2021 – currently

**Back-end developer and DevOps:** [Borocard](http://www.borocard.com/) (Remote position)

Coordinating the development of a savings management mobile application. Start as **part time** and became **full time** since Feb 2022.

* Developing server via [NodeJS](https://nodejs.org/en/) to host appliaction and manage its clients.
* Used [Stripe](https://stripe.com/en-hu) and [Belvo](https://belvo.com/) to manage user savings.
* Developed mechanisms to automate logs and configs storage on the cloud.
* Created the CI pipeline of the back-end repository.
* Manage the AWS hosting and [Mongo Atlas](https://account.mongodb.com/account/login) for production server.
* Creating [pre-commit hooks](https://pre-commit.com/hooks) to maintaine source code quality.

2021 – 2022

**PostDoctoral, Electrical and Computer Engineering**

Working as a **full time** researcher for the Software Analytics and Evolution Lab at Queen’s University, Canada

* Conducted research studies on Green Software Development.
* Assisting PhD and Master students in their research projects.

2020 – 2021

**Software Developer** [Greek Free, Open Source Software](https://gfoss.eu/)

Developing a privacy-preserving epidemic dosimeter based on contact tracing (**full time**). [Proof](gfoss_2020.pdf) [Repository](https://github.com/eellak/epidose.git)

* Developing [Python](https://www.python.org/), [Shell](https://www.gnu.org/software/bash/), and [Ansible](https://www.ansible.com/) scripts on a Raspberry Pi Zero
* Extented testing for the correct functionality of the device.
* Preapred scripts to automate the deployment of the software in the Raspberry Pi devices and the server.

2019 – 2020

**Back-end developer, DevOps, and Integrations:** [AllCanCode Inc. Greek Branch](https://www.allcancode.com/)

Supported the product that facilitates fast web-sites development (by using [Blockly](https://developers.google.com/blockly)) on Desktop that can be exported in smart-phones as well (**part time**).

* Development of API end-points in JavaScript ([Node.JS](https://nodejs.org/en/)) and [MongoDB](https://www.mongodb.com/) for the server platform (product) and customer products.
* Creation of the CI/CD pipeline for the product (in GitLab) to perform back-end and front-end testing (through [Mocha](https://mochajs.org/), [Chai](https://www.chaijs.com/) and [Cypress](https://www.cypress.io/) frameworks, respectively) and auto-deploy product on Google’s App Engine (Aurora, Beta, and Production) using the [Flex environment](https://cloud.google.com/appengine/docs/flexible).
* Migration products functions to cloud functions using [Firebase hosting](https://firebase.google.com/docs/hosting), [Cloud Functions](https://firebase.google.com/docs/functions), and [Cloud Run](https://cloud.google.com/run).
* Integration of [Bitrise](https://www.bitrise.io/) system in the product to allow platform users to export their Desktop applications to Android and iOS through the [Cordova](https://cordova.apache.org/) wrapper.

2016 – 2019

**Proposals writing:** [Singular Logic S.A.](https://portal.singularlogic.eu/en)

Proposals writing for the European Projects Department as **part time**. [Proof](singular_logic_2016-2019.pdf)

* Writing research proposals for Horizon 2020

## TECH SKILLSET

*Back-End*

BASH and SHELL: often automating cumbersome and time consuming tasks

NodeJS: using Express, prefer Mocha-Chai, like to use Native Addons for performance

Java: was teaching it at the Athens University of Economics and Business

Python: No need to read tutorials, feeling confy to code anytime

C and C++: First languages to learn and impressed by their performance

MongoDB: Can use native but prefers Mongoose

Code Quality: Coveralls, Style-Checkers, ESLint, Prettier, and so on

Pre-commit hooks: Creating my own pre-commit hooks to ease cumbersome tasks

*DevOps*

Continuous Integration and Deployment: Big fan of CI/CD Travis, GitLab, and GitHub Actions

Docker Containers and Compose: to facilitate the deployment and execution of applications

Hosting: used Firebase, AWS, and Google App Engine

Mobile CI/CD: Bitrise with Cordova wrapper for mobile apps

Configuration Management: knows Ansible because he enjoys YAML

*Certificates*

Unix Tools: [Data, Software, and Production Engineering](unix_tools_edx.pdf)

*Course Completion*

MongoDB: [Basics](mongodb_m001.pdf), [Aggregation](mongodb_m121.pdf), [JavaScript](mongodb_m220.pdf), and [Performance](mongodb_m201.pdf)

Loading the data just for you.

## GRANDS, AWARDS, LANGUAGES, AND LIVING ABROAD

* Grands and awards:
  + [Arctic Code Vault Contributor](arctic_code_contributor.jpg)
  + Mentored younger researcher [who won 2nd place](fse19.pdf) in SRC ESEC/FSE ’19.
  + Best paper award from the 15th Annual DMST Student Conference (2018)
  + Marie Skłodowska-Curie funds, [SENECA](https://portal.singularlogic.eu/en/eu-project/12374/seneca) (€ 62,400)
  + Erasmus Mundus Masters Scholarship, PERCCOM (€ 12,0000)
* 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)