Dr. Stefanos Georgiou

Location preference: Remote position

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

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About me: I am passionated with research, **coding**, integrating new technologies, and automating cumbersome tasks. My research interests lie to Green and Energy-Efficient Computing, Mining Software Repositories, and Machine Learning. I enjoy working on the command-line and especially with Linux systems. I love to create small indepentant componets and tools to facilitate different daily functionalities. On my free time, I enjoy sporting, reading books, and **travelling**.

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 advisors: (Main) **Prof. Diomidis Spinellis**, **Prof. Panos Louridas**, and **Rizos Sakellariou**

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 AntHocNet Routing Protocol in Sensor Network*; **Degree**

WORK

Feb 2021 - currently

Back-end developer and DevOps: Boro

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

Tasks: Developing server via **NodeJS** to host appliaction and manage its clients.

Used Stripe and Belvo to manage user savings.

Developed server logging mechnisms and cron jobs to store logs and configs on the cloud.

Created the CI pipeline of the back-end repository.

Manage the AWS hosting and Mongo Atlas for production server.

Established pre-commit hooks to check commits source code quality and unused module removal.

Feb 2021 - Feb2022 **PostDoctoral, Electrical and Computer Engineering**; Queen's University

Working as a **full time** researcher for the Software Analytics and Evolution Lab,

Tasks: Conducted research studies on Green Software Development.

Assisting PhD and Master students in their research projects.

Sep 2020 - Feb 2021 **Software Developer** **Greek Free, Open Source Software**

Developing a privacy-preserving epidemic dosimeter based on contact tracing (**full time**). **Proof Repository**

Tasks: Developing **Python**, **Shell**, and **Ansible** 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.

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

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

Tasks: Development of API end-points in JavaScript (**Node.JS**) and **MongoDB** 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**, **Chai** and **Cypress** frameworks, respectively) and auto-deploy product on Google's App Engine (Aurora, Beta, and Production) using the **Flex environment**.

Migration products functions to cloud functions using **Firebase hosting**, **Cloud Functions**, and **Cloud Run**.

Integration of **Bitrise** system in the product to allow platform users to export their Desktop applications to Android and iOS through the **Cordova** wrapper.

Jan 2016 - Jan 2019 **Proposals writing:** **Singular Logic S.A.**

Proposals writing for the European Projects Department as **part time**. **Proof**

Tasks: Writing research proposals for Horizon 2020

TECH SKILLSET

Back-End	BASH and SHELL (Often automating cumbersome and time consuming tasks)
	NodeJS (Fan of KOA and Express, prefer Mocha-Chai, like to use Native Addons for performance)
	Java (Was also teaching it at the Athens University of Economics and Business)
	Python (No need to read tutorials, feeling confy to code anytime)
	C (First language to learn and impressed by its performance)
	C++ (Second to learn, but as soon as I learned Java I stopped using it)
	MongoDB (**Basics**, **Aggregations**, **JavaScript**, and **Performance**)
	Code Quality (Coveralls, maven-plugins, Style-Checkers, ESLint, Prettier, and pre-commit hooks)
	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 (Firebase, AWS, 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**
	Validate Links: **Repository**
Certificates	Unix Tools: **Data, Software, and Production Engineering**
Course Completion	MongoDB: **Basics**, **Aggregation**, **JavaScript**, and **Performance**

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GRANDS, AWARDS, LANGUAGES, AND LIVING ABROAD

- Grands and awards:
  - **Arctic Code Vault Contributor**
  - 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 (€ 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)
