Dr. Stefanos Georgiou

Location preference: Remote position

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

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About me: Passionated with **coding**, 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**.

▬▬▬ 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

2021 – currently **Back-end developer and DevOps: Borocard** (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** to host appliaction and manage its clients.
- Used **Stripe** and **Belvo** 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** for production server.
- Creating **pre-commit 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**

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

- 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.

2019 – 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**).

- 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.

2016 – 2019   **Proposals writing: Singular Logic S.A.**

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

- 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**

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

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Loading the data just for you.
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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** (€ 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)