

Nikos Filinis

Software Developer

Athens, Greece

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🌀 Nickgraviton

Education

- 2022–Present **PhD**,
NETMODE Lab, National Technical University of Athens,
Thesis Title: Orchestration of distributed applications over programmable networks across compute continuum (IoT-Edge-Cloud),
Advisor: Prof. Symeon Papavassiliou.
- 2015–2021 **Master of Engineering**,
Electrical and Computer Engineering, National Technical University of Athens,
GPA: 8.73/10.

Projects

- PharmaSea**,
Webapp where users can utilize crowdsourcing to create a price tracking platform for medicine,
Used:
Front-end: *HTML, CSS, JavaScript, Bootstrap*
Back-end: *Java, Spring Boot, MySQL, Gradle*.
- PCL Compiler**,
Compiler for a Pascal-like toy language,
Used: *C++, flex, bison, LLVM*.
- Airport Management System**,
GUI application for an airport management system,
Used: *Java, JavaFX*.
- Noobcash**,
Simple blockchain implementation,
Used: *Python, Flask*.

Publications

- April 2022 **Reinforcement learning-assisted autoscaling mechanisms for serverless computing platforms**,
Simulation Modelling Practice and Theory Volume 116, April 2022, 102461,
Automatic scaling mechanisms that use reinforcement learning to determine the optimal amount of resources that need to be provisioned to maximize performance and minimize use of said resources,
Used: *Kubernetes, Docker, Kubeless, Python, OpenAI Gym, Tensorflow, Tf-agents*.

Skills

- Programming Skills** Java, Python, C++, C, JavaScript, HTML, CSS, SQL
- Frameworks/Tools** Spring Boot, Git, Kubernetes, Docker, Flask, JavaFX, Matplotlib, Numpy, Pandas
- Languages** Greek (Native), English(C2), German(C1)