

# Dimitrios Karnikis

🌐 dkarnik.is

## Interests

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Trusted Execution Environments (e.g. Intel SGX, Arm TrustZone), High-Level Languages (e.g. Javascript, Lua), Security, Embedded Devices, Operating and Distributed Systems

## Education

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### Master of Science (MSc) student in Computer Science

University of Crete, Greece

February 2019 – February 2021

### Bachelor of Science (BSc) in Computer Science

University of Crete, Greece

Sept 2013 – November 2018

## Work Experience

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### Bang & Olufsen A/S – Kongens Lyngby

◦ Embedded Software Developer

**Linux/C++, RTOS, Audio**

October 2022 – Ongoing

### Aarno Labs – Remote

◦ Freelance Software Engineer

**TEE's, High-level Languages, CI/CD**

February 2021 – April 2022

### DiSCS Laboratory – FORTH-ICS

◦ Postgraduate research fellow

**Intel SGX, Arm TrustZone**

February 2019 – February 2021

### DiSCS Laboratory – FORTH-ICS

◦ Undergraduate research fellow

**Intel SGX, Android**

November 2016 – February 2019

## Publications

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### ◦ Practically Correct, Just-in-Time Shell Script Parallelization

Konstantinos Kallas, Tammam Mustafa, Jan Bielak, *Dimitris Karnikis*, Thurston HY Dang, Michael Greenberg, Nikos Vasilakis

16th USENIX Symposium on Operating Systems Design and Implementation (OSDI 2022)

### ◦ Andromeda: Enabling Secure Enclaves For The Android Ecosystem

Dimitris Deyannis, *Dimitris Karnikis*, Giorgos Vasiliadis, Sotiris Ioannidis

4th Information Security Conference (ISC 2021)

### ◦ An Enclave Assisted Snapshot-based Kernel Integrity Monitor

Dimitris Deyannis, *Dimitris Karnikis*, Giorgos Vasiliadis, Sotiris Ioannidis

Proceedings of the 3rd ACM International Workshop on Edge Systems, Analytics and Networking 2020

## Advanced Technical Skills

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◦ **Programming:** C, C++, Lua, JavaScript, Java

◦ **Tools:** Git, Docker, Github Actions (CI/CD), Bash, Unix Tools, GDB, Latex, Qemu, Wireshark

◦ **Systems:** Linux, Windows, Android, Embedded Devices

◦ **Other:** Intel SGX, Arm TrustZone, Socket Programming, PostgreSQL