

Grigorios Moulkiotis

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EDUCATION

National and Kapodistrian University of Athens

2024 - Present

M.Sc. in Computer Science

National and Kapodistrian University of Athens

2019 - 2024

B.Sc. in Computer Science

- Thesis: Enhanced Techniques for Testing x86 and RISC-V CPUs Against Speculation Contracts
- Supervisor: Professor Vasileios Karakostas

EXPERIENCE

Software engineer

June 2024 – Present

Intracom-Telecom

- Developed Microservice applications using Spring Boot for telecom services
- Designed and developed front end applications using React and Angular frameworks
- Migrated data from OracleDB to MySQL
- Integrated Identity and Access Management systems

RESEARCH

National and Kapodistrian University of Athens

Enhanced Techniques for Testing x86 and RISC-V CPUs Against Speculation Contracts

- Studied microarchitectural side channel attacks, speculative vulnerabilities and fuzzing using Revizor
- Inserted timing instead of performance counters to collect traces from side channels
- Developed instruction cache side channels detection using fuzzing
- Ported Revizor for RISC-V architectures and integrated security vulnerability detection for the state of art vulnerabilities

PROJECTS

Eclass Penetration testing | *PHP, JavaScript, Docker*

- Security research in order to find vulnerabilities in eclass platform.
- Implementation of security patches in order to fix the vulnerabilities

Systems Programming | *C, C++, assembly*

- A Linux system tool using pipes and forks to monitor folder changes and notify users of file events.
- LLM benchmark analysis and enchantment using openmkl and AVX.

Extraction of data using machine learning and data mining techniques | *Python, scikit-learn, Pytorch*

- During the course of machine learning and data mining I got exposed to data mining and AI/ML methodologies in order to extract data from various sources(text,image,etc).

TECHNICAL SKILLS

Languages: Java, PHP, Python, C/C++, SQL (MySql,OracleDB), JavaScript, HTML/CSS, Assembly(x86,RISC-V)

Frameworks - Libraries: Spring Boot, React, Angular, PyTorch, scikit-learn

Developer Tools: Git, Docker, VS Code, Visual Studio, IntelliJ

VOLUNTEERING

Teaching assistant in the following courses:

Introduction to programming: 2020

Computer architecture I: 2023

LANGUAGES

Greek: Native

English: C1