

# Emmanouil Koukoularis

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## EXPERIENCE

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### Software Engineer

2021 - present

Greek Universities Network (GUnet)

Digital Identity & Security

- **Core contributor** to the implementation of the [wwWallet Project](#) (GUnet, Yubico, SUNET); participated in numerous large scale pilots such as the DC4EU in the [Social Security use case](#).
- The wwWallet project was a **finalist and winner** in the [SPRIND FUNKE challenge](#) - competition included teams from Google and Samsung.
- **Collaborated** with the [Netcompany - Scytales team](#) to achieve **interoperability** with the EUDI Wallet ecosystem in the context of the Social Security use case.
- **Contributed** to [OpenID Internet Standard \(OpenID4VCI\)](#).

## EDUCATION

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### National and Kapodistrian University of Athens

2017 - 2022

BSc - Informatics and Telecommunications

- [eClass Penetration Testing](#): **Secured 1st place** in an Attack-Defense simulation of 10 teams of the university; **patched vulnerabilities** and conducted **penetration testing** in a **competitive** format.
- [Vulnerability Research & Exploitation](#): **Engineered** automated exploit scripts and documented solutions for a multi-stage Capture The Flag (CTF) security assignment focused on **vulnerability research** and **penetration testing**.
- [Cybersecurity competition](#): **Recognized** for top-tier technical performance at the **Belgium Embassy Cybersecurity Competition**; successfully executed complex attack scenarios to achieve a **leading position**.
- [Tiny Java Compiler](#): Implemented a subset of Java with parsing, semantic analysis, and code generation using LLVM.

### University of Michigan

2015

Certificate of Proficiency (C2) - English Language

## SKILLS

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**Main fields:** Identity Security, Information Security, Identity Management, Public-key cryptography (Conceptual), WebAuthN

**Concepts:** Systems Programming, Systems Design, Distributed Systems, Compilers, Key management

**Technologies:** NodeJS, Java, Python, C, Linux, PostgreSQL/MySQL, Redis