VASILIS KALOS

PROFILE

Extremely passionate about problem solving, learning new technologies and exploring interesting ideas. With a B.Sc. in Mathematics a M.Sc. in Computer Science, I have developed a deep love for problem solving. Passionate about working with open-source projects and communities to keep driving advances around security and privacy. Currently a PhD student, with a focus on applied cryptography, eager to bring those cryptographic primitives to the real world, through standardization efforts, research focused on applicability as well as novelty, and implementations development.

CONTACT

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GitHub:
https://github.com/BasileiosKal

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www.linkedin.com/in/vasilis-kalos-16013b1a9

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HOBBIES

Coding
Playing Music
Cycling
Riddle Solving

EDUCATION

M.Sc., Computer Science.
2020 – 2021.
Athens University of Economics and Business.
Department of Informatics.

B.Sc., with Honours, Mathematics.
2014 – 2020.
National Kapodistrian University of Athens.
Department of Mathematics.

WORK EXPERIENCE

MATTR | Cryptography Engineer
Nov 2021 – Today, New Zeeland,
Working on cryptographic algorithms, implementations, and technical cryptographic open standards focused on zero-knowledge proofs. Security engineering and developing with Rust. Researching mobile hardware security.

MMLab AUEB | PhD Student - Cryptography
March 2022 – Today, Greece,
Research in cryptography, focused on public key systems, zero-knowledge proofs, multi-party computations, threshold schemes, post-quantum cryptography as well as credential systems and identity management.

NCSR Demokritos, Nanometrisis| Internship – Mathematical Modeling
Aug 2019 – Nov 2019, Greece,
Mathematical analyses of nano imprinted materials and surfaces.

SELECTED PUBLICATIONS

Kalos, V., & Polyzos, G. C. "**Requirements and Secure Serialization for Selective Disclosure Verifiable Credentials**", In IFIP International Conference on ICT Systems Security and Privacy Protection, (2022).

Fotiou, N., Faltaka, E., Kalos, V., Kefala, A., Pittaras, I., Siris, V. A., & Polyzos, G. C. "**Continuous authorization over HTTP using Verifiable Credentials and OAuth 2.0**". Open Identity Summit, (2022).

Fotiou, N., Kalos, V., Thomas, Y., Xylomenos, G., Siris, V. A., & Mobile, G. C. P. "**Selective Content Disclosure using Zero-Knowledge Proofs**", (2022)

Looker, T., Kalos, V., Whitehead, A., & Lobber, M. (2022). "**The BBS Signature Scheme**". Active Internet-Draft, Internet Eng. Task Force (2022).

TECHNICAL SKILLS

Programing Languages: Rust, C/C++, Node, Js/Ts, Java, Kotlin
Tools and Frameworks: Git/GitHub, GitLab, Docker, React Native, Shell Scripting, Web Assembly
Other: Trusted computing (secure hardware, trusted platform modules etc,), Linux OS, Android OS