




Rui Fernandes

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 Germany

EXPERIENCE

Max Planck Institute for Security and Privacy

Bochum, Germany

Cryptography Engineer

Sept. 2023 - Present

- Worked in the implementation of post-quantum digital signature schemes (XMSS, SLH-DSA) as part of the Formosa Crypto project.
- Worked on the formal verification of cryptographic implementations.
- **Languages:** C

Faculty of Engineering of the University of Porto

Porto, Portugal

Teaching Assistant

Sept. 2022 - Dec. 2022

- Mentored students during project development.

Faculty of Sciences of the University of Porto

Porto, Portugal

Research Assistant

Jan. 2022 - Dec. 2022

- Worked within the *THEIA Project*, a collaborative initiative between Bosch and the University of Porto.
- Worked on the development of a knowledge base to model overtaking scenarios using synthetic datasets.
- **Languages:** Python

EDUCATION

Faculty of Sciences of the University of Porto

Porto, Portugal

Master's Degree in Information Security

Sept. 2021 - Jun. 2023

- Thesis: *Speculative Execution Resilient Cryptography*
- **Relevant Coursework:** Computer & Network Security, Penetration & Vulnerability Testing, Data Privacy, Information Security Management (ISO 27001), Software Systems & Information Security, Advanced Topics in Databases, Big Data & Cloud Computing

University of Minho

Braga, Portugal

Bachelor's Degree in Informatics Engineering

Sept. 2018 - Jul. 2021

- **Relevant Coursework:** Programming Paradigms (Functional, Imperative, Object-Oriented & Logic), Algorithms and Data Structures, SQL and NoSQL Databases, Computer Systems and Architecture, Computer Networks and Communication, Distributed Systems, Language Processing and Compilers, Computer Graphics

SKILLS

- **Programming Languages** C, C++, Python, Java, JavaScript, Rust
- **Frameworks:** Spring Boot, ReactJS
- **Databases:** SQL, MongoDB
- **Other Tools & Technologies** Git, Docker, Kubernetes, Github Actions
- **Languages** Portuguese (native), English (C2)