

# Rui Fernandes

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## EXPERIENCE

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### Cryptography Engineer

Sept. 2023 – Aug. 2025

*Max Planck Institute for Security and Privacy*

*Bochum, Germany*

- Worked on the implementation and formal verification of post-quantum digital signature schemes as part of the [Formosa Crypto](#) project.
- Co-authored a paper accepted for publication at CHES 2026.
- **Languages:** C

### Teaching Assistant

Sept. 2022 – Dec. 2022

*Faculty of Engineering of the University of Porto*

*Porto, Portugal*

### Research Assistant

Jan. 2022 – Dec. 2022

*Faculty of Sciences of the University of Porto*

*Porto, Portugal*

- Worked on the development of a knowledge base to model overtaking scenarios using synthetic datasets as part of the [THEIA](#) Project, a collaborative initiative between Bosch and the University of Porto.
- **Languages:** Python

## EDUCATION

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### 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 (GCP).

### 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.

## TECHNICAL SKILLS

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**Programming Languages** C, C++, Java, Python

**Web Development:** Spring Boot, SQL, ReactJS

**Developer Tools:** Docker, Kubernetes, Github Actions

**Languages:** Portuguese (native), English (C2), German (A2)