

Cezary Pilaszewicz

Telephone: +49 176 34 62 68 22 | Email: cezary.pilaszewicz@gmail.com | cpilaszewicz.github.io

Experience

Research Assistant at Information Security Group, Freie Universität Berlin

Apr 2022 - now

- Conducted research on mathematical foundations relevant to quantum computing in the context of cryptography and cryptanalysis
 - Developed post-quantum secure cryptographic protocols tailored for the banking sector
 - Prepared project proposals for BMBF funding projects
 - Assisted in teaching cryptanalysis courses

Android Developer at Virtual Solution AG, Berlin

Sep 2017 - Feb 2022

- Contributed to the development of a secure mobile application with a strong focus on design, usability, and security
 - Created app concepts aligned with best practices and internal development standards
 - Performed evaluation, documentation, and analysis of development outcomes
 - Worked within an agile development framework

Education

PhD in Computer Science, Freie Universität Berlin

EGD Apr 2026

- Topic: Enhancements of symmetrical cryptanalysis with quantum computers
 - Focus on algebraic cryptanalysis methods

Master's in Computer Science, Freie Universität Berlin

2022

- Master's thesis: Optimization of the size of a quantum register for Shor's algorithm
 - Focus on computer security in theory and praxis

Bachelor's in Mathematics, Freie Universität Berlin

2018

- Bachelor's thesis: Evaluation of variational Autoencoders

Skills & Abilities

- Android, iOS development
 - Python
 - SageMath

Languages

- English - Full professional proficiency, FCE
 - German - Full professional proficiency, DSH
 - Polish - Native speaker