

Cezary Pilaszewicz

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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